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Virginia

1979 STATISTICAL ANNUAL REPORT

or Fiscal Year 1980

Center for Health Statistics
Department of Health
Richmond

COMMONWEALTH of VIRGINIA

JAMES B. KENLEY, M.D.
COMMISSIONER

Department of Health
Richmond, Va. 23219

The Honorable John N. Dalton
Governor of Virginia
Richmond, Virginia

Dear Governor Dalton:

It is a pleasure to present the sixty-seventh statistical annual report of the Department of Health for the calendar year 1980 or the fiscal year ending June 30, 1981, where indicated.

The first section of this report contains a narrative description of vital records data followed by extensive statistical tabulations. These data indicate that on an average day in 1979:

211 Virginia residents were born
112 Virginia residents died
161 marriages occurred in Virginia
65 divorces occurred in Virginia.

The second section contains activity summaries and program accomplishments of the various Divisions and Bureaus of the Health Department. Data provided can be used to measure the successful impact of public health programs on the health of the citizens of the Commonwealth.

Respectfully submitted,

James B. Kenley, M.D.
State Health Commissioner

VIRGINIA DEPARTMENT OF HEALTH

1979 STATISTICAL ANNUAL REPORT

CENTER FOR HEALTH STATISTICS
BUREAU OF VITAL RECORDS AND HEALTH STATISTICS
RICHMOND, VIRGINIA

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VITAL STATISTICS

V I T A L S T A T I S T I C S

INTRODUCTION

Vital Statistics data for Virginia for the year 1979 are given in this Statistical Annual Report, the sixty-seventh in the series. Data regarding births and deaths have been compiled each year since 1913, the year following the establishment of the Bureau (now Division) of Vital Records and Health Statistics. Marriage data are available for each year since 1917, and divorce statistics have been recorded and tabulated since 1918.

In this narrative, the data are described and briefly analyzed. Following this, the vital statistics are presented in tabular form showing trends experienced in Virginia for the twenty-year period 1960-1979. For 1979 events, detailed tables containing information for the State and for independent cities and counties are also included. Cities and counties are grouped into twenty-two State planning districts, and planning district totals are also given.

Most tabulations are based on births, deaths, fetal deaths, marriages, and divorces recorded in the Division of Vital Records and Health Statistics and known births and deaths of Virginia residents which occurred outside the State. Since resident data reflect local conditions, more of the material in this vital statistics report is presented by place of residence rather than by place of occurrence of the event. The title of each table of data on births, deaths, fetal deaths, and marriages specifies whether the tabulation is compiled by place of occurrence or by place of residence. The divorce data are presented by city or county where the court granted the divorce.

DEFINITIONS

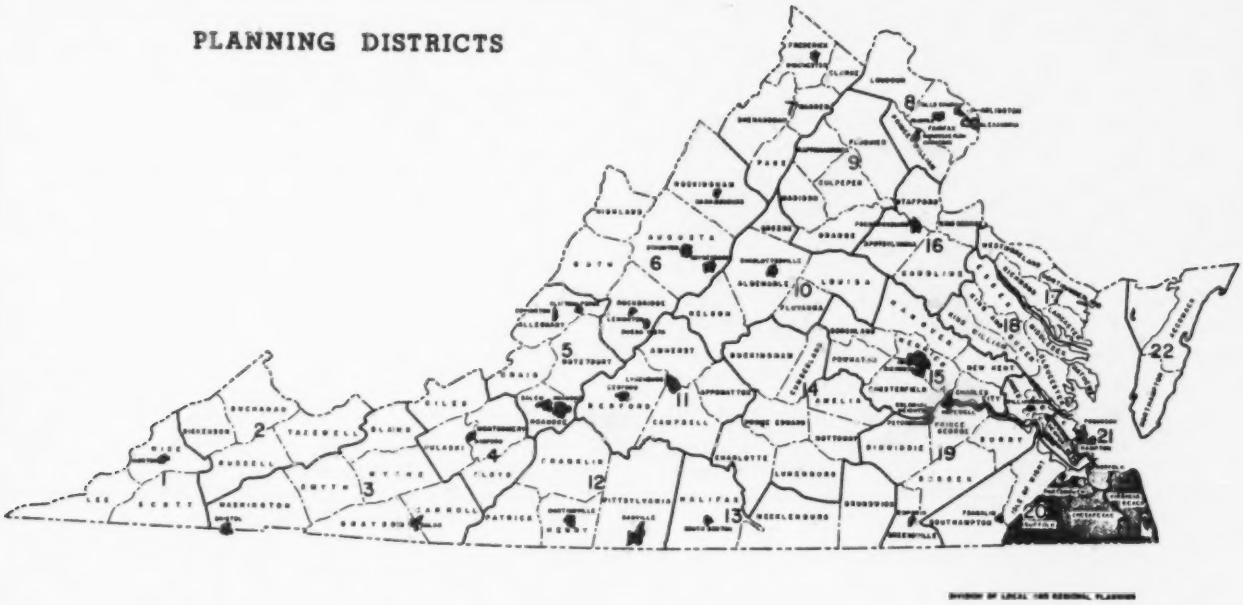
Residence is that of the deceased for a death and that of the mother for a birth or fetal death. Deaths and births in resident institutions are allocated to the place of previous residence regardless of length of stay in the institution. Marriages are tabulated according to the city or county of residence for both the bride and the groom.

White and nonwhite breakdowns are given for most data. "White" includes persons reported as Mexican and Puerto Rican and those not specifically designated as nonwhite. "Nonwhite" includes Negro, a reported mixture of Negro with any other race, and all other nonwhite races and mixtures. For marriage and divorce figures, white and nonwhite refer to the race of the groom. For birth and fetal death data, white and nonwhite refer to the race of the mother.

A live birth is defined as the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, which after such expulsion or extraction, breathes, or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. (Vital Statistics Laws of Virginia, Chapter 18.1,32-353.4)

An immature birth, frequently called premature birth, is one for which the birthweight is 2,500 grams (5 pounds 8 ounces) or less, regardless of the period of gestation.

PLANNING DISTRICTS



CITIES AND COUNTIES BY PLANNING DISTRICT, VIRGINIA, 1979

Planning District Number		Planning District Number		Planning District Number		Planning District Number	
	INDEPENDENT CITIES	13	South Boston	2	Dickenson	10	Nelson
8	Alexandria	6	Staunton	19	Dinwiddie	15	New Kent
11	Bedford	20	Suffolk	18	Essex	22	Northampton
3	Bristol	20	Virginia Beach	8	Fairfax	17	Northumberland
6	Buena Vista	6	Waynesboro	9	Fauquier	14	Nottoway
10	Charlottesville	21	Williamsburg	4	Floyd	9	Orange
20	Chesapeake	7	Winchester	10	Fluvanna	7	Page
5	Clifton Forge			12	Franklin	12	Patrick
19	Colonial Heights			7	Frederick	12	Pittsylvania
5	Covington		COUNTIES	4	Giles	15	Powhatan
12	Danville	22	Accomack	18	Gloucester	14	Prince Edward
19	Emporia	10	Albemarle	15	Goochland	19	Prince George
8	Fairfax	5	Alleghany	3	Grayson	8	Prince William
8	Falls Church	14	Amelia	10	Greene	4	Pulaski
20	Franklin	11	Amherst	19	Greensville	9	Rappahannock
16	Fredericksburg	11	Appomattox	13	Halifax	17	Richmond
3	Galax	8	Arlington	15	Hanover	5	Roanoke
21	Hampton	6	Augusta	15	Henrico	6	Rockbridge
6	Harrisonburg	6	Bath	12	Henry	6	Rockingham
19	Hopewell	11	Bedford	6	Highland	2	Russell
6	Lexington	3	Bland	20	Isle of Wight	1	Scott
11	Lynchburg	5	Botetourt	21	James City	7	Shenandoah
8	Manassas	13	Brunswick	16	King George	3	Smyth
8	Manassas Park	2	Buchanan	18	King and Queen	20	Southampton
12	Martinsville	14	Buckingham	18	King William	16	Spotsylvania
21	Newport News	11	Campbell	17	Lancaster	16	Stafford
20	Norfolk	16	Caroline	1	Lee	19	Surry
1	Norton	3	Carroll	8	Loudoun	19	Sussex
19	Petersburg	15	Charles City	10	Louisa	2	Tazewell
21	Poquoson	14	Charlotte	14	Lunenburg	7	Warren
20	Portsmouth	15	Chesterfield	9	Madison	3	Washington
4	Radford	7	Clarke	18	Mathews	17	Westmoreland
15	Richmond	5	Craig	13	Mecklenburg	1	Wise
5	Roanoke	9	Culpeper	18	Middlesex	3	Wythe
5	Salem	14	Cumberland	4	Montgomery	21	York

An illegitimate birth is one which occurred to a mother who was not married to the father of the child at the time of birth and had not been married to him at any time during the preceding 10 months.

A fetal death is defined as death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy. The death is indicated by the fact that after such expulsion or extraction, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. (Vital Statistics Laws of Virginia, Chap. 18.1,32-353.4)

Induced abortion is a fetal death where the pregnancy has been deliberately terminated with the purpose of producing a nonviable fetus. Molar and ectopic pregnancies are excluded.

A natural fetal death is a fetal death that is not an induced abortion.

Infant deaths are deaths of children under one year of age. Neonatal deaths are deaths of children under 28 days of age. Hebdomadal deaths are deaths of children under one week of age.

The underlying cause of death, by which all deaths are classified, may be defined as (a) the disease or injury which initiated the train of morbid events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury. It is the responsibility of the certifying physician or medical examiner to indicate the underlying cause, and it is the responsibility of the nosologists in the Center for Health Statistics to assign the proper code number from the Ninth Revision, International Classification of Diseases, so that deaths may be classified by underlying cause. Because of the classification revision, cause-of-death figures beginning with 1979 data are not entirely comparable with those of earlier years.

In order to compare death rates from certain causes for the years 1969-1978 with the death rates for a year or years during the period 1949-1968, the estimated number of deaths from these causes during the early year or years must be derived by the use of comparability ratios which were computed by the National Center for Health Statistics from the results of dual coding of certificates according to the old and the new procedures. The comparability ratios are the number of deaths classified to a given cause by the Eighth Revision divided by the number of deaths classified to that cause by the Seventh Revision. Comparability ratios have not yet been developed for the Eighth Revision versus the new Ninth Revision.

Rates used in this report are defined below:

$$\text{Birth rate} = \frac{\text{Number of live births} \times 1{,}000}{\text{Estimated total midyear population}}$$

$$\text{Death rate} = \frac{\text{Number of deaths} \times 1{,}000}{\text{Estimated total midyear population}}$$

$$\text{Infant death rate} = \frac{\text{Number of deaths under one year of age} \times 1{,}000}{\text{Total number of live births}}$$

$$\text{Neonatal death rate} = \frac{\text{Number of deaths under 28 days of age} \times 1{,}000}{\text{Total number of live births}}$$

$$\text{Perinatal death rate} = \frac{\text{(Number of deaths under one week of age + number of fetal deaths 28 weeks and over gestation) X 1,000}}{\text{Total number of live births + number of fetal deaths 28 weeks and over gestation}}$$

$$\text{Maternal death rate} = \frac{\text{Number of maternal deaths X 100,000}}{\text{Total number of live births}}$$

Death rates by cause, other than the maternal rate, are calculated per 100,000 estimated population.

Resident rates refer to births or deaths of residents of Virginia (or a planning district, city or county) and are based on estimated total population, or total live births of the State. No city, county, or planning district resident marriage or resident divorce rates are published in this report. The marriage rates and divorce rates for the State given in Table 4 include all marriages performed in Virginia and all divorces granted in Virginia courts and are calculated per 1,000 estimated population.

A "resident" marriage rate has limited meaning because there is at present no interstate exchange of marriage records, hence no way of knowing how many residents of Virginia are married in other states. Furthermore, the bride and the groom may be residents of two different Virginia localities. According to Virginia law, one party of a divorce must be a resident of this State for a year prior to the commencement of the suit. Because fourteen independent cities do not have separate courts but share a court with the adjoining county, there are no separate divorce figures for these cities. (See Table 52) Furthermore, local divorce rates for the areas just described would have to be based upon the population of the combined city and county concerned.

The median is defined as the middle observation of a distribution. It is that figure for which 50 percent of the observations are below and 50 percent are above in value.

Total population estimates by city and county for July 1, 1979, as shown in Table 2, were prepared by the Tayloe Murphy Institute at the University of Virginia, Charlottesville, Virginia. Estimates for race for 1979 were based on 1980 Census data. The sum of the populations of the cities and counties does not equal the State total due to rounding.

The 1979 household population estimates, shown in Table 3, were estimated from figures prepared by the Tayloe Murphy Institute. ("Estimates of Demographic Characteristics of Virginia's Cities and Counties, 1979) The term "household population" excludes military persons living in barracks, persons living in institutions of all kinds, college students living in dormitories or other group quarters, and other persons living in similar group quarters. The definitions of "household" and "group quarters" are those set by the U. S. Bureau of Census in the published reports of the 1970 census. (General Population Characteristics, Virginia PC(1)-B48, Appendix B. App. 6-7.)

In most localities the total population differs only slightly from the population living in households. In this annual report, birth and death rates for independent cities and counties have been calculated on household populations since these are the populations with which local health services are primarily concerned and since deaths in resident institutions are allocated to place of prior residence regardless of length of stay in the institution. However, rates for

planning districts and for the State as a whole are calculated on total population estimates, since these larger areas include all persons within their boundaries whether in households or group quarters.

INTERPRETATION OF DATA

Collection. In Virginia, all birth, fetal death, and death certificates are filed in local health departments of the counties and independent cities by the hospitals, physicians, midwives, and funeral directors. The local health offices forward the records semi-monthly to the Division. Marriage certificates and divorce abstracts are transmitted monthly to the Division by the clerks of the various city and county courts.

Interstate exchange of vital records. An interstate exchange of birth and death certificates provides a count of out-of-state events occurring to Virginia residents for inclusion in the resident totals of Virginia cities and counties. Likewise, certificates of events occurring in Virginia to non-residents are transferred to the proper states. A large number of the births to northern Virginia residents occur in District of Columbia hospitals, which accounts for the fact that the number of out-of-state births greatly exceeds the number of non-resident births occurring in the State. Out-of-state deaths also outnumber resident deaths, but by a much smaller margin.

LOCATION OF BIRTH OR DEATH

Location	Births, 1979			Deaths, 1979		
	Total	White	Nonwhite	Total	White	Nonwhite
Occurring in Virginia	73,968	54,140	19,828	40,170	31,059	9,111
Residents of Virginia	71,917	52,378	19,539	38,329	29,508	8,821
Residents of other areas	2,051	1,762	289	1,841	1,551	290
Occurring to Virginia residents	76,899	56,736	20,163	40,798	31,749	9,049
In Virginia	71,917	52,378	19,539	38,329	29,508	8,821
Out-of-state	4,982	4,358	624	2,469	2,241	228

Completeness of registration. At the time of the Censuses of Population of 1940 and 1950, tests were made to determine the completeness of birth registration in each state. In the 1950 test, Virginia's reporting was estimated to be 97.3 percent complete (98.0 percent for white births, 95.1 percent for nonwhite). With the steady increase in the percent of births occurring in hospitals since 1950, especially among the nonwhite, it is assumed that the reporting of births is more complete than ever before.

The completeness of registration of other vital records has never been studied to any great extent; however, indications are favorable in regard to the reporting of these records. Death registration is considered more complete than birth registration since other legal requirements must be met.

Fetal death registration will probably improve regarding completeness of reporting since increasing attention is directed to the relationship of fetal deaths and early infant deaths. The liberalization of abortion laws has also increased the number of reported cases.

Chart A

PERCENTAGE POPULATION CHANGE BY PLANNING DISTRICTS

VIRGINIA 1970—1979

Late filing of records. All vital records for the report year which are received prior to the deadline cutoff date in the following year are included in the annual statistics. Deadline cutoff dates are March 1 for marriages and divorces, April 1 for deaths, and May 1 for births and fetal deaths. Late registrations not included in annual statistics are, therefore, small in number.

Tabulation of data by residence and by place of occurrence. Resident data are presented for the State, for planning districts, and for the counties and independent cities on all vital events except divorces and annulments. Recorded data are obtained by classifying the vital records according to the place of occurrence of birth, death, fetal death, marriage, and divorce. Considerable use is made of recorded data in planning hospital and clinic facilities in a given community.

SUMMARY OF VITAL EVENTS, VIRGINIA, 1979

Event	Total	White	Nonwhite
Resident Events			
Live births	76,899	56,736	20,163
Natural fetal deaths	6,205	4,420	1,785
Induced abortions	29,455	20,453	9,002
Infant deaths	1,135	712	423
Deaths, all causes	40,798	31,749	9,049
Recorded Events			
Marriages	58,678	49,775	8,903
Divorces (including annulments)	23,555	19,678	3,877

POPULATION

Virginia's total population as of July, 1979 was estimated at 5,259,424 according to the Tayloe Murphy Institute, University of Virginia. This was an increase of 111,324, or 2.2 percent, over the July, 1978 estimate of 5,148,100 and represents a 607,976, or 13.1 percent, increase since the revised census figure for April 1, 1970.

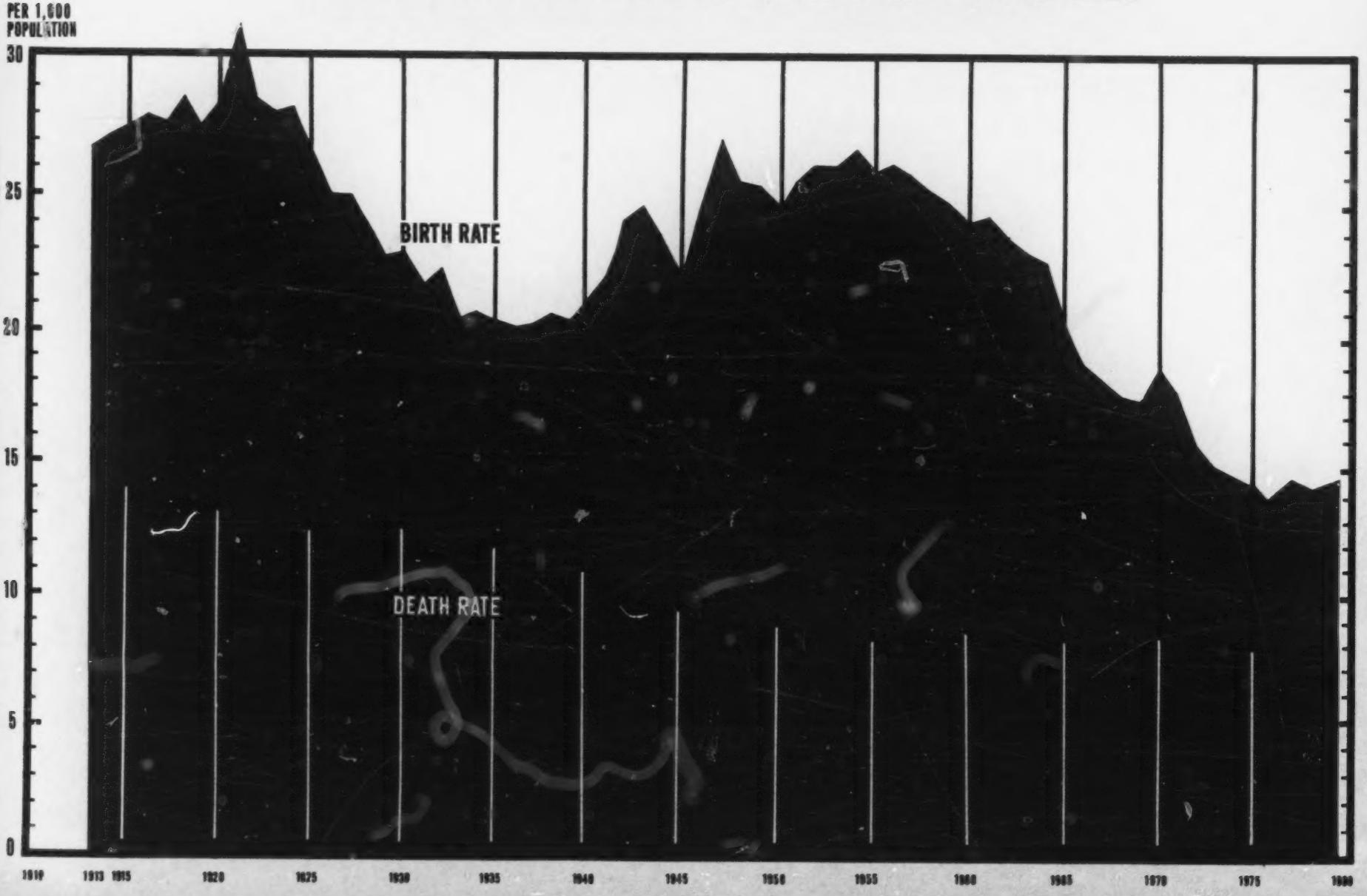
Among planning district areas, Planning District 16 (including Caroline, King George, Spotsylvania, Stafford counties and Fredericksburg city) has had, by far, the most significant rise in population -- 48.9 percent from the 1970 census to the July, 1979 count. The second most significant rise in population, 24.0 percent for the same period, occurred in Planning District 9 (including Culpeper, Fauquier, Madison, Orange and Rappahannock counties). The only planning district indicating a loss of population since the 1970 census was Planning District 19.

The city/county areas with the greatest percent population growth since the 1970 census were Spotsylvania (96.4), Chesterfield (75.8), Powhatan (65.4), Poquoson (64.4) and Stafford (59.1). Arlington (-13.1), Falls Church (-12.5), Norfolk (-12.3), Fairfax city (-12.0) and Richmond city (-12.0) showed the largest decreases in population during the same period.

Approximately one-fifth, 1,079,146, of Virginia's population live in Planning District 8 - Arlington, Fairfax, Loudoun and Prince William counties, and Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities. The population gain for the period 1970-1979 for Planning District 8 stood at 17.1 percent, well above the State figure of 13.1 percent.

Chart B

BIRTH AND DEATH RATES IN VIRGINIA SINCE 1913



Planning District 17 (Lancaster, Northumberland, Richmond and Westmoreland counties) is the smallest in terms of population with 40,560 residents.

Since the 1970 census, the white population has increased by 10.4 percent while the nonwhite population increased by 24.8 percent. In 1979, the racial distribution of Virginia's population was 78.9 percent white and 21.1 percent nonwhite. The 1970 census figures were 80.9 percent and 19.1 percent, respectively.

RESIDENT BIRTHS

Virginia resident live births numbered 76,899 in 1979, representing a 4.8 percent increase over the 73,349 recorded in 1978. The birth rate was 14.6 per 1,000 estimated population in 1979, a 2.8 percent increase over the 1978 rate of 14.2. The comparable preliminary birth rate for the United States was 15.8 per 1,000 population in 1979.

BIRTHS AND BIRTH RATES WITH PERCENT CHANGE
VIRGINIA, 1974-1979

Year	Births	Percent Change	Birth Rate	Percent Change
1974	71,066	-0.8	14.5	-2.7
1975	70,032	-1.5	14.1	-2.8
1976	69,972	-0.1	13.9	-1.4
1977	74,246	+6.1	14.5	+4.3
1978	73,349	-1.2	14.2	-2.1
1979	76,899	+4.8	14.6	+2.8

The increase of 4.8 percent in 1979 resident births and the 0.4 percent increase in resident deaths combined to increase the birth-to-death ratio from 1.904 in 1978 to 1.885 in 1979. The total live birth rate exceeded the death rate by 6.8 per 1,000 population in 1979.

NUMBER AND RATE OF NATURAL POPULATION INCREASE BY RACE
VIRGINIA, 1979

Race	Births	Deaths	Natural Increase	Birth Rate	Death Rate	Rate of Natural Increase
Total	76,899	40,798	36,101	14.6	7.8	6.8
White	56,736	31,749	24,987	13.7	7.6	6.1
Nonwhite	20,163	9,049	11,114	18.2	8.2	10.0

Race and Age of Mother. Of the 76,899 infants born to Virginians in 1979, nearly three-fourths (73.8 percent) were white. However, the nonwhite birth rate (18.2) was 4.5 per 1,000 population higher than the white rate of 13.7. Unlike 1978 when both white and nonwhite births decreased, there was an increase of 1,815 white births and 1,735 nonwhite births in 1979.

Although the largest number of births (24,945) occurred in the age group 20-24, the 25-29 age group had the highest age specific rate (98.1 per 1,000 females). Whites also had the highest age specific rate (96.7) for ages 25-29, but for nonwhites the highest rate (130.8) occurred for ages 20-24. At all ages except 30-34, the age specific rates for nonwhites were higher than the rates for whites.

RESIDENT LIVE BIRTHS BY AGE OF MOTHER BY RACE
WITH AGE SPECIFIC RATES PER 1,000 FEMALES, VIRGINIA, 1979

Age	Numbers			Rates per 1,000 Females		
	Total	White	Nonwhite	Total	White	Nonwhite
TOTAL	76,899	56,736	20,163	60.2	55.3	80.1
Under 15*	244	84	160	5.9	2.6	16.8
15-19	11,982	7,147	4,835	49.3	37.8	89.5
20-24	24,945	17,754	7,191	95.0	85.6	130.8
25-29	23,323	18,379	4,944	98.1	96.7	104.1
30-34	12,732	10,501	2,231	59.6	60.2	57.1
35-39	3,132	2,465	667	18.0	17.1	22.1
40-44	503	384	119	3.4	3.2	4.6
45 & over**	28	18	10	1.0	0.8	2.0
Not stated	10	4	6			

Rates based on females aged 14* and 45** only.

Median Age and Live Birth Order. The median age for all mothers of 1979 live births was 25.3. For white mothers, the median age was 25.9, while for nonwhite mothers, it was 23.5. The median age for white mothers was higher than that for nonwhite mothers at all birth orders.

The median birth order for all Virginia mothers was 2.1. For white and nonwhite births, the median birth order was 2.1 and 2.2, respectively.

MEDIAN AGE OF MOTHER FOR EACH BIRTH ORDER BY RACE
VIRGINIA, 1979

Race	Total	Birth Order									
		1	2	3	4	5	6	7	8	9	10 or more
Total	25.3	22.9	26.1	28.1	29.8	31.9	33.7	34.6	36.3	37.3	38.5
White	25.9	23.6	26.7	28.9	30.9	33.0	34.6	35.9	36.9	38.2	39.1
Nonwhite	23.5	20.7	24.2	26.0	27.8	29.5	32.5	33.1	35.7	36.5	38.2
Years white median age greater than nonwhite	2.4	2.9	2.5	2.9	3.1	3.5	2.1	2.8	1.2	1.7	0.9

Attendant at Birth. The percentage of total births occurring in hospitals remained 99.3, the same in 1979 as in 1978. In 1979, for both white and nonwhite births, the percentage in hospitals was also 99.3. An additional 248 births were attended by physicians out of the hospital. For white and nonwhite births, the percentages attended by "midwives or others" were 0.5 and 0.3, respectively.

Sex Ratios. As usual, the male births (39,476) outnumbered the female births (37,423). The resulting ratio was 105.5 males to every 100 females.

The frequency of males to females was also greater for infant deaths, for natural fetal deaths where sex was indicated, and for births with congenital malformations. This male-to-female ratio was higher for whites than nonwhites for live births, fetal deaths, and infant deaths; however, for congenital malformations, this sex ratio was higher among nonwhites.

RATIO OF MALES PER 100 FEMALES FOR SPECIFIED VITAL EVENTS
VIRGINIA, 1979

Vital Event	Total	White	Nonwhite
Live Births	105.5	106.1	103.7
Natural Fetal Deaths	139.9	161.0	113.3
Infant Deaths	130.7	152.5	101.4
Congenital malformations	157.2	153.8	168.3

Immature Births. During 1979, there were 5,814, or 7.6 percent, of total live births of "immature" birthweight (weighed 5 pounds 8 ounces or less at birth regardless of gestation). The nonwhites exhibited a much higher percentage of immaturity among births with 11.7 percent compared to 6.1 percent immature births for whites. Hospital deliveries occurred for 98.9 percent of the immature births, with the white and nonwhite percentages being 99.0 and 98.7, respectively.

PERCENT IMMATURE OF RESIDENT BIRTHS BY RACE
VIRGINIA, 1975-1979

Year	Immature Births			Percent		
	Total	White	Nonwhite	Total	White	Nonwhite
1975	5,377	3,322	2,055	7.7	6.2	12.2
1976	5,274	3,207	2,067	7.5	6.0	12.2
1977	5,451	3,287	2,164	7.3	5.9	11.6
1978	5,399	3,247	2,152	7.4	5.9	11.7
1979	5,814	3,461	2,353	7.6	6.1	11.7

NUMBER AND PERCENT OF BIRTHS ACCORDING TO
WEIGHT GROUP BY RACE, VIRGINIA, 1979

Birthweight	Total		White		Nonwhite	
	Number	Percent	Number	Percent	Number	Percent
TOTAL	76,899	100.0	56,736	100.0	20,163	100.0
Immature	5,814	7.6	3,461	6.1	2,353	11.7
Less than 1lb.2oz.	129	0.2	53	0.1	76	0.4
1lb.2oz.-3lb.4oz.	925	1.2	548	1.0	377	1.9
3lb.5oz.-5lb.8oz.	4,760	6.2	2,860	5.0	1,900	9.4
Full Term	70,987	92.3	53,210	93.8	17,777	88.2
5lb.9oz.-7lb.11oz.	41,277	53.7	28,622	50.5	12,655	62.8
7lb.12oz.-9lb.14oz.	28,319	36.8	23,384	41.2	4,935	24.5
9lb.15oz. & over	1,391	1.8	1,204	2.1	187	0.9
Unknown	98	0.1	65	0.1	33	0.1

The percentage of total births that were immature was highest at birth order six. This birth order had the highest percentage of immature deliveries for nonwhite mothers, but for white mothers, birth order five had the highest percentage. At all birth orders, the relative frequency of immature births was significantly higher among nonwhite than white mothers.

PERCENT IMMATURE OF LIVE BIRTHS BY BIRTH ORDER
BY RACE, VIRGINIA, 1979

Race	Total	Birth Order						
		1	2	3	4	5	6	7 plus
Total	7.6	8.0	6.8	7.4	8.3	10.1	10.8	8.3
White	6.1	6.7	5.1	5.8	6.6	9.5	7.7	3.4
Nonwhite	11.7	11.8	11.6	11.3	11.6	11.2	14.7	12.8

The percentage of immature live births was highest among mothers under 15 years of age. This age group also had the highest percentage of immature births for white mothers as well as for nonwhite mothers. For all age groups, except 45 and over, nonwhite mothers had a higher percentage of immature births than white mothers.

PERCENT IMMATURE OF LIVE BIRTHS BY AGE OF MOTHER
BY RACE, VIRGINIA, 1979

Race	Total	Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total	7.6	16.4	10.8	7.9	6.2	6.1	7.5	8.2	10.7
White	6.1	15.5	8.6	6.2	5.4	5.3	6.3	6.8	11.1
Nonwhite	11.7	16.9	14.0	12.0	9.4	10.1	12.1	12.6	10.0

Illegitimate Births. There was a significant increase of 1,700, or 13.6 percent, in the number of illegitimate births in 1979. This resulted in an illegitimate birth rate of 185.3 per 1,000 live births. Both the illegitimate birth number and illegitimate birth rate for 1979 were the highest on record. The number of illegitimate births increased by 11.7 percent for whites, and by 14.4 percent for nonwhites. The nonwhite rate of 487.5 illegitimate births per 1,000 live births was considerably higher than the comparable white rate of 77.9.

RESIDENT ILLEGITIMATE BIRTHS WITH RATES
PER 1,000 LIVE BIRTHS BY YEAR, VIRGINIA, 1970-1979

Year	Total Live Births	Illegitimate Live Births	Rates per 1,000 Live Births
1970	86,081	10,263	119.2
1971	82,713	10,071	121.8
1972	75,068	9,806	130.6
1973	71,665	9,514	132.8
1974	71,066	9,738	137.0
1975	70,032	10,220	145.9
1976	69,972	10,703	153.0
1977	74,246	12,125	163.3
1978	73,349	12,546	171.0
1979	76,899	14,246	185.3

Month of Birth. An average of 211 children were born each day to Virginia residents. The daily averages by month ranged from a high of 232 in September to a low of 194 in April.

DAILY AVERAGE OF BIRTHS BY MONTH
VIRGINIA, 1979

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
205	205	203	194	202	208	219	228	232	213	216	205

Congenital Anomalies. In 1979, there were 661 infants born with one or more congenital anomalies reported, or 0.9 percent of total live births. Of the congenital anomalies reported, polydactyly was, by far, the most common condition for nonwhites (25.0 percent). Deformities of the feet (11.9 percent) and cleft palate and cleft lip (11.6 percent), were the most common anomalies for whites.

NUMBER AND PERCENT OF CONGENITAL ANOMALIES BY TYPE BY RACE
VIRGINIA, 1979

Type of Anomaly	Total		White		Nonwhite	
	No.	Pct.	No.	Pct.	No.	Pct.
TOTAL	766	100.0	586	100.0	180	100.0
Anencephalus	14	1.8	14	2.4		
Spina bifida	30	3.9	24	4.1	6	3.3
Other anomalies of nervous system	26	3.4	18	3.1	8	4.4
Anomalies of eye	10	1.3	9	1.5	1	0.6
Anomalies of ear, face, and neck	24	3.1	22	3.8	2	1.1
Bulbus cordis anomalies and anomalies of cardiac septal closure	13	1.7	13	2.2		
Other anomalies of heart	48	6.3	38	6.5	10	5.6
Other anomalies of circulatory system	11	1.4	10	1.7	1	0.6
Anomalies of respiratory system	9	1.2	4	0.7	5	2.8
Cleft palate and cleft lip	82	10.7	68	11.6	14	7.8
Other anomalies of upper alimentary tract	13	1.7	11	1.9	2	1.1
Other anomalies of digestive system	30	3.9	30	5.1		
Undescended testicle	23	3.0	12	2.0	11	6.1
Hypospadias and epispadias	38	5.0	30	5.1	8	4.4
Other anomalies of genitourinary system	19	2.5	15	2.6	4	2.2
Congenital dislocation of hip	20	2.6	17	2.9	3	1.7
Deformities of feet	81	10.6	70	11.9	11	6.1
Polydactyly	65	8.5	20	3.4	45	25.0
Syndactyly	16	2.1	14	2.4	2	1.1
Other anomalies of limbs	47	6.1	28	4.8	19	10.6
Other anomalies of musculoskeletal system	39	5.1	30	5.1	9	5.0
Anomalies of the integument	20	2.6	15	2.6	5	2.8
Down's syndrome	35	4.6	27	4.6	8	4.4
Other chromosomal anomalies	9	1.2	9	1.5		
Other and unspecified anomalies	44	5.7	38	6.5	6	3.3

Plural Births. There were 1,575 live multiple births to Virginia residents in 1979: 1,546 twins and 29 triplets. Additionally, 102 twins and 5 triplets were reported as natural fetal deaths.

Among live births a much higher rate of immaturity existed for plural births (54.2 percent) than for single births (7.6 percent). The nonwhite immaturity rate for plural births was 60.4 percent, while the white rate stood at 51.8 percent.

For every 1,000 live births among nonwhite women, there were 21.9 plural births, while for every 1,000 live births among white women, there were 20.0 plural births. The comparative rates for 1978 were 22.6 and 17.9, respectively.

PLURAL BIRTHS AND IMMATURE PLURAL BIRTHS
WITH PERCENT IMMATURE BY RACE, VIRGINIA, 1979

Event	Total	White	Nonwhite
Plural births	1,575	1,133	442
Plural immature births	854	587	267
Percent immature	54.2	51.8	60.4

Out-of-State Occurrences. In 1979, 4,982, or 6.5 percent, of the infants born to Virginia residents were born out-of-state. Of these births, 2,503, or 50.2 percent, occurred in the District of Columbia. The six areas bordering Virginia accounted for 97.5 percent of Virginia's out-of-state births.

The 2,051 births occurring in Virginia to out-of-state residents represented 2.8 percent of the 73,968 live births occurring in Virginia. The states of residence most frequently recorded for these Virginia-born infants were West Virginia (909), North Carolina (552), and Maryland (319). A total of 95.6 percent of these out-of-state resident births were from the six boarding areas of Virginia.

BIRTHS INVOLVING VIRGINIA AND BORDERING STATES
VIRGINIA, 1979

State of Birth	Virginia residents born out-of-state		Out-of-state residents born in Virginia	
	Number	Percent	Number	Percent
TOTAL	4,982	100.0	2,051	100.0
District of Columbia	2,503	50.2	63	3.1
Tennessee	969	19.4	32	1.6
Maryland	632	12.7	319	15.5
West Virginia	349	7.0	909	44.3
North Carolina	278	5.6	552	26.9
Kentucky	128	2.6	86	4.2
Other states	123	2.5	78	3.8
Foreign countries			12	0.6

Other Birth Items. A total of 56,395, or 73.3 percent, of the 1979 Virginia mothers were at least high school graduates. Of this number, 13,049 had completed four or more years of college. For 720, or 0.9 percent of the mothers, education did not extend beyond the sixth grade level. The highest grade completed was not stated for 210 mothers.

In 1979, 62,258 mothers, or 81.0 percent, began prenatal care in the first trimester of pregnancy. At least 98.4 percent of the mothers had seen a physician prior to delivery. Only 527, or 0.7 percent, of the mothers received no prenatal care, while care status for 686 mothers was unknown.

Of the mothers who had completed at least 12 years of schooling, 85.9 percent began prenatal care in the first trimester of pregnancy. Only 61.4 percent of the 720 mothers with fewer than seven years of education began care as early. The percentage of mothers who completed at least their high school education but who received no prenatal care was 0.3, while the comparable percentage for mothers with fewer than seven years of school was 1.9.

The 30-34 age group had the highest percentage of mothers, 88.3 percent, who received prenatal care in the first trimester of pregnancy. Of the mothers who were under 15 years of age, only 44.7 percent received prenatal care in the first trimester. The percentage of mothers receiving no prenatal care was the highest for the age group 45 and over, 7.1 percent.

Of the Virginia women giving birth in 1979, 63.1 percent saw a physician 10 to 14 times during pregnancy. The median number of prenatal visits was 12.0. Seventy-one mothers were seen by a physician 30 or more times.

One or more complications of pregnancy were indicated for 20,081, or 26.1 percent, of mothers having live births. Mothers 15-19 had the lowest percentage of complications of pregnancy, 24.3 percent, while mothers who were age 40-44 had the highest percentage of complications, 33.4 percent. With the exception of mothers under 15 and over 45, the percentage of births with complications of pregnancy increased as the mother's age increased.

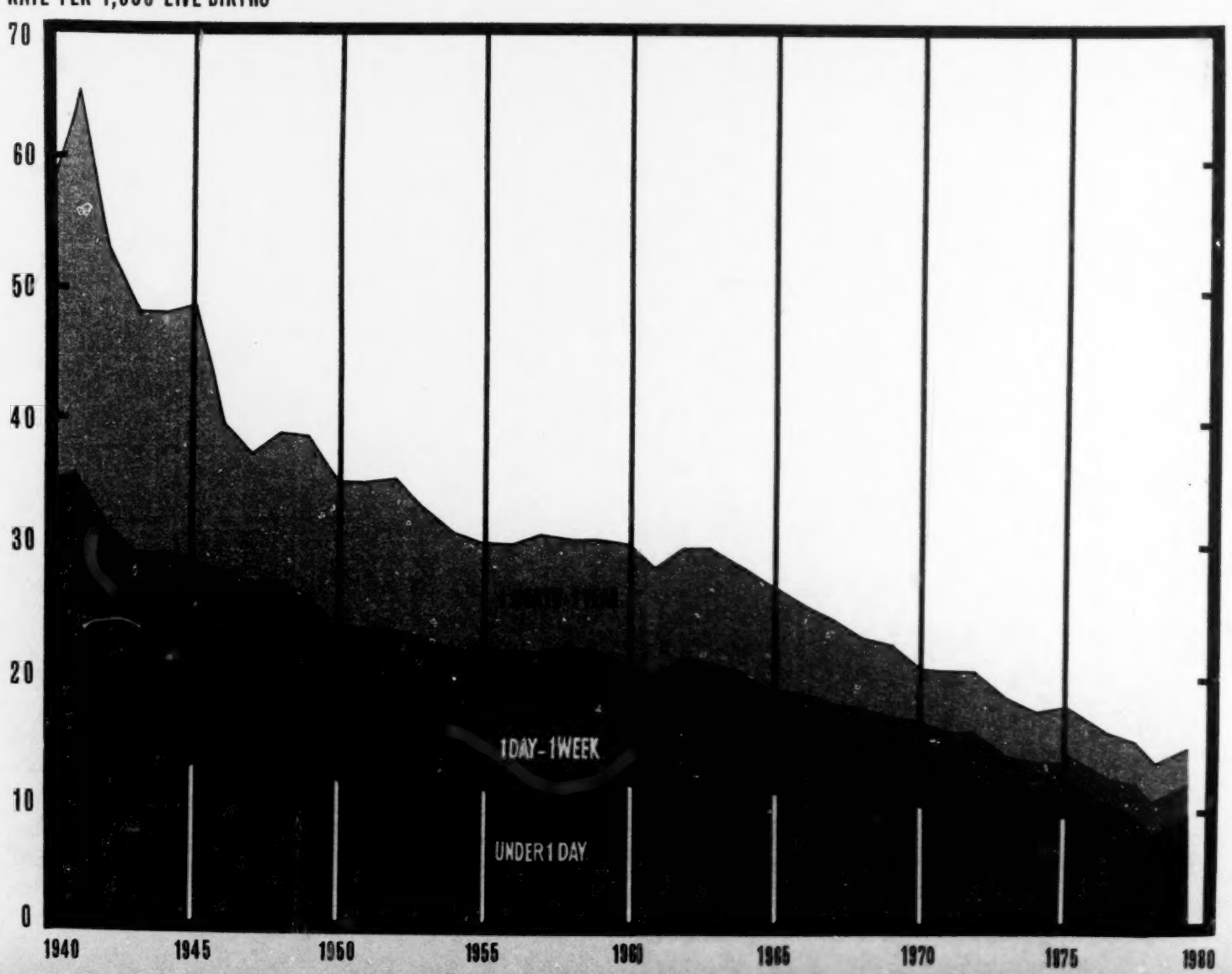
PERCENTAGE DISTRIBUTION OF RESIDENT BIRTHS BY AGE OF MOTHER BY TRIMESTER PRENATAL CARE BEGAN, COMPLICATIONS OF PREGNANCY, AND CONGENITAL ANOMALIES, VIRGINIA, 1979

Medical Item	Total	Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Trimester Care Began									
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
First trimester	81.0	44.7	63.5	79.9	87.3	88.3	84.0	72.1	53.6
Second trimester	14.7	40.2	28.4	15.9	9.9	8.5	11.7	19.1	39.3
Third trimester	2.7	10.6	5.8	2.9	1.5	1.4	2.0	5.4	
None	0.7	4.1	1.7	0.7	0.4	0.4	0.4	1.4	7.1
Unknown	0.9	0.4	0.6	0.6	0.9	1.4	1.9	2.0	
Complications of Pregnancy									
Percent of Births	26.1	30.7	24.3	25.5	26.0	27.7	30.6	33.4	25.0
Congenital Anomalies									
Percent of Births	0.9	0.8	0.9	0.8	0.9	0.7	0.8	1.4	3.6

Of the mothers receiving prenatal care, 26.0 percent had complications of pregnancy and 23.9 percent of those who received no prenatal care had complications. Mothers having their first child had the highest percentage of births with complications, 28.9 percent. The lowest percentage of births with complications, 21.8 percent, was reported for birth order five.

Chart C

INFANT MORTALITY RATE PER 1,000 LIVE BIRTHS IN VIRGINIA SINCE 1940



RESIDENT BIRTHS WITH COMPLICATIONS OF PREGNANCY
BY TYPE BY BIRTH ORDER, VIRGINIA, 1979

Type of Complication	Total	Birth Order								
		1	2	3	4	5	6	7	8+	Unk.
Unduplicated count of mothers with complications	20,081	10,077	6,122	2,522	818	286	128	49	77	2
All complications	30,010	16,325	8,204	3,504	1,136	450	196	72	121	2
Complications related to pregnancy	4,799	2,588	1,186	626	221	101	42	11	24	
Conditions in the mother complicating pregnancy	1,232	563	380	177	61	24	14	4	9	
Complications affecting delivery	16,827	8,346	5,281	2,111	656	226	102	39	64	2
Type of delivery (if specified on certificate)	7,152	4,828	1,357	590	198	99	38	18	24	
Percent with complications	26.1	28.9	24.3	23.6	21.9	21.8	25.2	22.2	28.2	

INFANT MORTALITY

In Virginia, in 1979, infant deaths increased to 1,135, or 14.8 percent, from the 1978 figure of 989. The resulting rate of 14.8 shows a substantial increase from the 1978 rate of 13.5 per 1,000 live births.

In 1979, there were 835 neonatal deaths (infants under 28 days) resulting in a rate of 10.9 per 1,000 live births. The comparable figures for 1978 were 693 neonatal deaths with a rate of 9.4.

White infant deaths increased from 611 in 1978 to 712 in 1979 and nonwhite infant deaths increased from 378 to 423. The rates of infant deaths per 1,000 live births were 12.5 and 21.0 for whites and nonwhites, respectively.

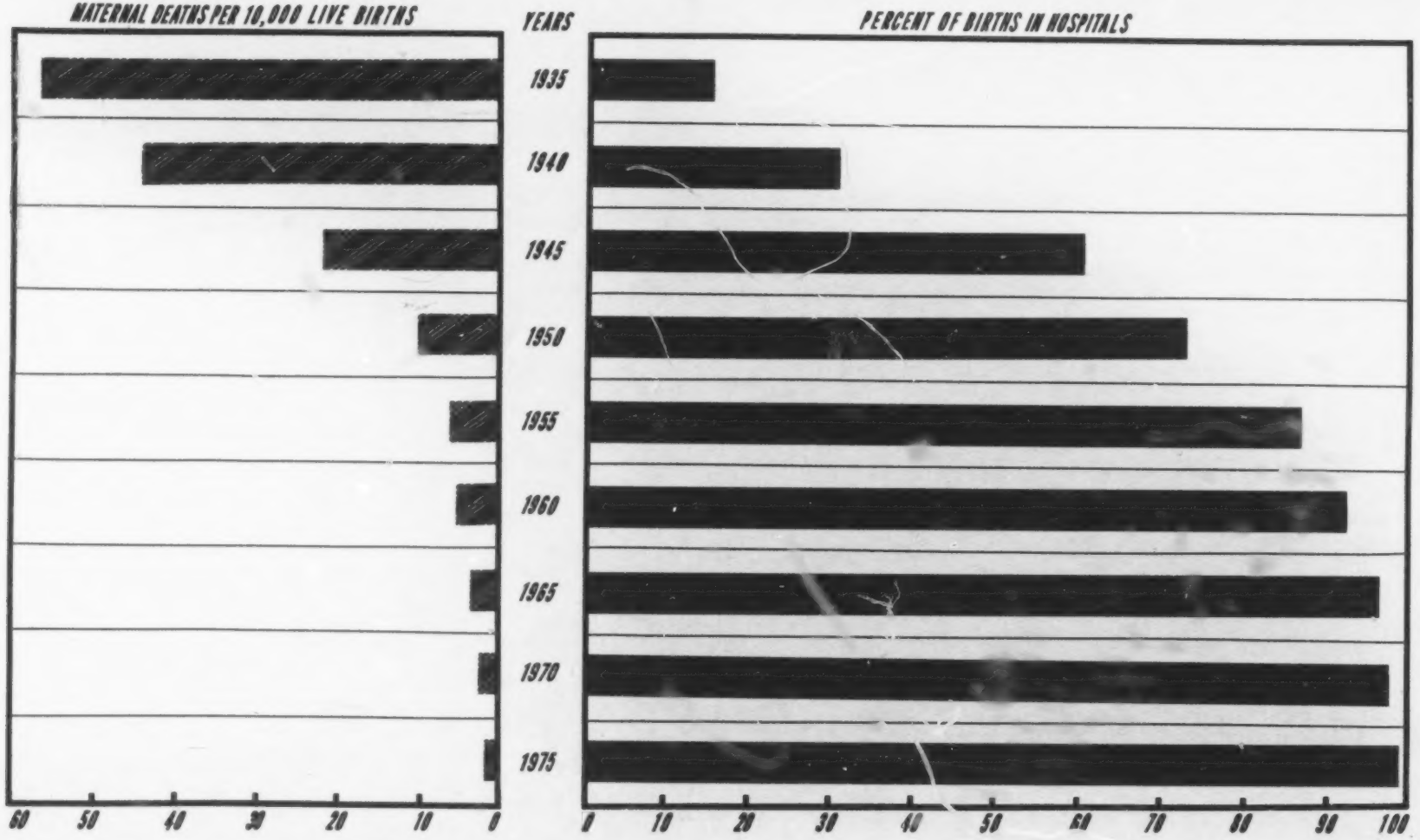
RESIDENT INFANT DEATHS BY RACE WITH RATES
PER 1,000 LIVE BIRTHS, VIRGINIA, 1975-1979

Year	Total		White		Nonwhite	
	Number	Rate	Number	Rate	Number	Rate
1975	1,233	17.6	802	15.1	431	25.6
1976	1,143	16.3	699	13.2	444	26.2
1977	1,167	15.7	724	13.0	443	23.8
1978	989	13.5	611	11.1	378	20.5
1979	1,135	14.8	712	12.5	423	21.0

Virginia's infant death rate of 14.8 per 1,000 live births was somewhat higher than the preliminary United States rate of 13.0. For neonatal deaths (infant deaths under 28 days) the rates for Virginia and the United States were 10.9 and 8.7, respectively.

Chart D

MATERNAL MORTALITY AND HOSPITALIZATION OF BIRTHS IN VIRGINIA SINCE 1935



Among the 1,135 infant deaths for Virginia residents, 222, or 19.6 percent, were attributed to congenital anomalies; 142, or 12.5 percent, to disorders relating to short gestation and low birthweight; 122, or 10.7 percent, to respiratory distress syndrome; and 122, or 10.7 percent, to sudden infant death syndrome. These four causes accounted for over half of the total infant deaths. The group of causes, "certain conditions originating in the perinatal period," which accounted for 650 infant deaths and one death in another age group, was the eighth leading cause of death for the State.

RESIDENT INFANT DEATHS BY CAUSE WITH RATE PER 100,000 LIVE BIRTHS
VIRGINIA AND UNITED STATES, 1979

Cause of Infant Death	Virginia		United States*
	Number	Rate	Rate
TOTAL INFANT DEATHS	1,135	1,476.0	1,296.7
Certain gastrointestinal diseases (008-009, 535,555-558)	4	5.2	10.7
Pneumonia and influenza (480-487)	15	19.5	33.1
Congenital anomalies (740-759)	222	288.7	257.7
Disorders relating to short gestation and low birthweight (765)	142	184.7	100.5
Birth trauma (767)	40	52.0	31.7
Intrauterine hypoxia and birth asphyxia (768)	43	55.9	48.4
Respiratory distress syndrome (769)	122	158.6	155.8
Other conditions originating in the perinatal period (760-764,766,770-779)	303	394.0	317.3
Sudden infant death syndrome (798.0)	122	158.6	142.8
All other causes	122	158.6	199.0

*Rates estimated
NOTE: Numbers in parentheses are from ICD, 9th revision.

In 1979, there were 463 infants who failed to survive one day and 713 who died within their first week of life. Infants who died before the age of one month (835) accounted for 73.6 percent of the total infant deaths.

PERCENT OF TOTAL INFANT DEATHS IN EACH AGE GROUP BY RACE
VIRGINIA, 1979

Race	Total Infant Deaths	Age at Death						
		Less than 1 day	1-6 days	Under 1 week	7-27 days	Under 28 days	1-5 Mos.	6-11 Mos
Total	100.0	40.8	22.0	62.8	10.7	73.6	20.8	5.6
White	100.0	38.8	23.0	61.8	12.6	74.4	19.5	6.0
Nonwhite	100.0	44.2	20.3	64.5	7.6	72.1	22.9	5.0

MATERNAL DEATHS

Maternal conditions caused 7 deaths among Virginia women in 1979, giving a maternal mortality rate of 9.1 per 100,000 live births. Although a higher number of maternal deaths occurred for white mothers (4) than nonwhite mothers (3), the rate of 14.9 per 100,000 live births for nonwhite mothers was more than twice as high as the white rate of 7.1.

MATERNAL DEATHS BY CAUSE BY RACE
VIRGINIA, 1979

Cause	Total	White	Nonwhite
TOTAL	7	4	3
Complications mainly related to pregnancy (640-648)	3	1	2
Complications occurring mainly in the course of labor and delivery (660-669)	1	1	
Complications of the puerperium (670-676)	3	2	1

NOTE: Numbers in parentheses are from ICD, 9th revision.

ALL PREGNANCY TERMINATIONS

A total of 112,559 pregnancy terminations (live births and all fetal deaths) were reported for Virginia residents in 1979, representing 4,587 more than in the previous year. This 4.2 percent increase resulted from an increase of 4.8 percent in the number of live births and a 3.4 percent increase in induced abortions. Current data show a rising trend in deliveries due to the increase in abortions which was greatly accelerated with the 1970 legislative action and later Supreme Court decisions nullifying most requirements regarding induced abortions.

For females under 15 years of age, there were more induced abortions than live births. The largest age-specific rates for births and natural fetal deaths were in the 25-29 year age group, while for all fetal deaths and total pregnancy terminations, the 20-24 year age group was highest. The induced abortion rate was also highest among females 20-24 years of age.

RESIDENT PREGNANCY TERMINATIONS BY TYPE
VIRGINIA, 1970-1979

Year	Total Pregnancy Terminations	Live Births	All Fetal Deaths		
			Total	Induced Abortions	Natural Fetal Deaths
1970	94,554	86,081	8,473	1,633	6,840
1971	92,573	82,713	9,860	3,764	6,096
1972	85,547	75,068	10,479	4,564	5,915
1973	84,373	71,665	12,708	7,136	5,572
1974	90,257	71,066	19,191	13,594	5,597
1975	92,915	70,032	22,883	17,066	5,817
1976	97,604	69,972	27,632	21,563	6,069
1977	105,831	74,246	31,585	25,399	6,186
1978	107,972	73,349	34,623	28,492	6,131
1979	112,559	76,899	35,660	29,455	6,205

PREGNANCY TERMINATIONS, LIVE BIRTHS, ALL FETAL DEATHS, INDUCED ABORTIONS AND NATURAL FETAL DEATHS PER 1,000 FEMALES BY AGE, VIRGINIA, 1979

Age	Total Pregnancy Terminations	Live Births	All Fetal Deaths		
			Total	Induced Abortions	Natural Fetal Deaths
TOTAL	88.2	60.2	27.9	23.1	4.9
Under 15*	15.9	5.9	10.0	9.1	0.9
15-19	92.1	49.3	42.8	39.1	3.7
20-24	141.4	95.0	46.4	39.5	6.9
25-29	127.1	98.1	28.9	21.3	7.6
30-34	76.2	59.6	16.6	11.6	5.0
35-39	27.4	18.0	9.4	6.9	2.5
40-44	6.8	3.4	3.3	2.5	0.9
45 & over**	2.6	1.0	1.6	1.2	0.4

Rates are based on population age 14* and age 45** only.

ALL FETAL DEATHS

The 35,660 fetal deaths of all types occurring to Virginia residents in 1979 represented an increase of 1,037, or 3.0 percent, over the previous year. All fetal deaths reported for white and nonwhite residents increased 3.5 and 1.9 percent, respectively.

The Fetal Death total includes Induced Abortions which accounted for 82.6 percent of all fetal deaths. All other fetal deaths are referenced as Natural Fetal Deaths throughout this report.

INDUCED ABORTIONS

During 1979, at least 29,455 Virginia residents received induced abortions, an increase of 3.4 percent over the 1978 figure of 28,492. Reports of abortions occurring to Virginia residents in other areas are not included in this report since there is no regular interchange of abortion information among states. In addition to the 29,455 Virginia resident induced abortions that occurred in the State, 2,072 were performed in Virginia for residents of other areas. These make a total of 31,527 induced abortions occurring in Virginia in 1979, 3.6 percent more than in the previous year.

INDUCED ABORTIONS, VIRGINIA, 1979

Location	Total	White	Nonwhite
TOTAL OCCURRENCES	31,527	21,864	9,663
Residents of Virginia	29,455	20,453	9,002
Residents of other areas	2,072	1,411	661

Over two-thirds (69.4 percent) of the 29,455 Virginia residents known to have had induced abortions were white. The induced abortion rate per 1,000 white women aged 15-44 was 20.0, while the comparable figure for nonwhites was 35.8. The State figure for all women was 23.1 per 1,000 females aged 15-44.

RESIDENT INDUCED ABORTIONS BY AGE OF MOTHER BY RACE
WITH AGE SPECIFIC RATES PER 1,000 FEMALES, VIRGINIA, 1979

Age	Numbers			Rates per 1,000 Females		
	Total	White	Nonwhite	Total	White	Nonwhite
TOTAL	29,455	20,453	9,002	23.1	20.0	35.8
Under 15*	380	155	225	9.1	4.8	23.6
15-19	9,519	7,097	2,422	39.1	37.5	44.8
20-24	10,361	7,198	3,163	39.5	34.7	57.6
25-29	5,071	3,230	1,841	21.3	17.0	38.7
30-34	2,488	1,681	807	11.6	9.6	20.6
35-39	1,195	789	406	6.9	5.5	13.5
40-44	360	238	122	2.5	2.0	4.7
45 & over**	32	27	5	1.2	1.2	1.0
Not stated	49	38	11			

Rates based on females aged 14* and 45** only.

Age categories 15-19 and 20-24 each accounted for approximately one-third of Virginia's resident abortions. The age-specific rates for these groups, 39.1 and 39.5 per 1,000 women, were also similar. The median ages for total, white and nonwhite groups were 22.0, 21.7 and 22.8, respectively. While the median age for white women having induced abortions has remained about the same over the past five years, the nonwhite median age has been steadily increasing.

MEDIAN AGES OF RESIDENT WOMEN RECEIVING INDUCED ABORTIONS BY RACE
VIRGINIA, 1971-1979

Year	Total	White	Nonwhite
1971	23.1	N.A.	N.A.
1972	22.5	N.A.	N.A.
1973	22.3	22.8	21.8
1974	21.6	21.5	21.7
1975	21.6	21.5	21.9
1976	21.8	21.6	22.0
1977	21.8	21.5	22.2
1978	22.0	21.7	22.7
1979	22.0	21.7	22.8

More than three-fourths (79.2 percent) of the women receiving induced abortions in 1979 were not married to the father at the time of the abortion. The comparable figure for 1979 live births was 18.5. The illegitimacy rate for induced abortions for 1979 has increased 24.5 percent from the rate of 63.6 in 1971, the first full year after the legalizing legislation.

The percentages of induced abortions that were illegitimate were highest for the youngest age groups and decreased as age at abortion increased for both races. The nonwhite rates, however, were higher than the white rates at all age levels.

RESIDENT ILLEGITIMATE INDUCED ABORTIONS BY AGE OF MOTHER
WITH PERCENT ILLEGITIMATE, VIRGINIA, 1979

Age	Illegitimate			Percent Illegitimate		
	Total	White	Nonwhite	Total	White	Nonwhite
TOTAL	23,340	16,096	7,244	79.2	78.7	80.5
Under 15	374	150	224	98.4	96.8	99.6
15-19	9,032	6,672	2,360	94.9	94.0	97.4
20-24	8,436	5,810	2,626	81.4	80.7	83.0
25-29	3,408	2,136	1,272	67.2	66.1	69.1
30-34	1,355	870	485	54.5	51.8	60.1
35-39	534	327	207	44.7	41.4	51.0
40-44	151	93	58	41.9	39.1	47.5
45 & over	12	9	3	37.5	33.3	60.0
Not stated	38	29	9			

Of the 29,455 resident abortions, 98.4 percent were under 20 weeks gestation and over one-third (39.0 percent) were 8-9 weeks gestation. Only 1.0 percent of the induced abortions were 20 weeks or more gestation.

For 27,999, or 95.1 percent, of the induced abortions, suction curettage was the procedure used to terminate pregnancy. Sharp curettage was done for 238 terminations. Intra-uterine saline instillation and intra-uterine prostaglandin instillation were the methods used for 503, or 78.7 percent, of the 639 pregnancy terminations of 18 weeks or more gestation.

RESIDENT INDUCED ABORTIONS
PROCEDURES USED TO TERMINATE PREGNANCY BY GESTATION
VIRGINIA, 1979

Procedure	Total	Gestation (in Weeks)							
		Under 6	6-7	8-9	10-11	12-13	14-19	20 & Over	Unk.
TOTAL	29,455	831	7,700	11,501	5,806	1,826	1,326	303	162
Suction Curettage	27,999	771	7,515	11,311	5,750	1,772	803	25	52
Sharp Curettage	238	27	76	78	18	14	10	1	14
Intra-uterine saline instillation	678		3	2	4	19	330	237	83
Intra-uterine prostaglandin instillation	192				1	4	148	34	5
Hysterectomy	25	3	2	7	4	3	3		3
Hysterotomy	13		2	2			8	1	
Other	118	5	41	44	5	4	16	2	1
Unknown	192	25	61	57	24	10	8	3	4

The largest number of induced abortions (3,393) was reported for residents of Fairfax county. Following were Richmond city with 2,837, Norfolk with 1,944, Virginia Beach with 1,727, Henrico with 1,683, Newport News with 1,084, and Hampton with 1,031. All other areas had less than 1,000 residents receiving induced abortions.

NATURAL FETAL DEATHS

Natural fetal deaths, as shown below for the years 1970-1979, are the total fetal deaths for those years less the instances where the pregnancy termination was indicated as induced. These figures appear to be influenced somewhat by the changing legislation regarding induced abortion; specifically, the 1970 ruling allowing abortions for specified medical or psychological reasons and the 1973 ruling eliminating the necessity for reasons.

RESIDENT NATURAL FETAL DEATHS BY RACE
VIRGINIA, 1970-1979

Year	Total	White	Nonwhite
1970	6,840	5,303	1,537
1971	6,096	4,600	1,496
1972	5,915	4,382	1,533
1973	5,572	4,148	1,424
1974	5,597	4,211	1,386
1975	5,817	4,243	1,574
1976	6,069	4,389	1,680
1977	6,186	4,466	1,720
1978	6,131	4,390	1,741
1979	6,205	4,420	1,785

Resident natural fetal deaths totaled 6,205 in 1979 reflecting a 1.2 percent increase over the previous year. The rate was 80.7 per 1,000 live births.

Less than 15 percent of the natural fetal deaths occurred at 20 weeks or more gestation; for nonwhites, the percentage was 19.9, much higher than the comparable percentage of 12.0 for whites.

RESIDENT NATURAL FETAL DEATHS, RACE BY LENGTH OF GESTATION
VIRGINIA, 1979

Length of Gestation	Total		White		Nonwhite	
	Number	Percent	Number	Percent	Number	Percent
TOTAL	6,205	100.0	4,420	100.0	1,785	100.0
Under 20 weeks	5,319	85.7	3,890	88.0	1,429	80.1
20-27 weeks	413	6.7	220	5.0	193	10.8
28 weeks & over	473	7.6	310	7.0	163	9.1

The median age of women having natural fetal deaths was 26.0 in 1979. This compares to 25.3 for live births and 22.0 for induced abortions. Natural fetal deaths accounted for 5.5 percent of total pregnancies that ended during 1979. This statistic ranged from 4.0 percent for ages 15-19 and increased with each older age group to a high of 16.7 percent for women 45 and over.

NATURAL FETAL DEATHS BY AGE WITH PERCENT OF TOTAL PREGNANCY TERMINATIONS
VIRGINIA, 1979

Natural Fetal Deaths	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
Number	6,205	38	892	1,807	1,801	1,065	436	128	12	26
Percent of Pregnancy Terminations	5.5	5.7	4.0	4.9	6.0	6.5	9.2	12.9	16.7	

A non-specific reason was mentioned for the cause of the fetal death on 82.7 percent of these records. Of the 1,073 specified causes, ectopic pregnancy with 353 placed first. Conditions in the placenta (233) and immaturity (109) ranked second and third.

RESIDENT DEATHS

In 1979, the number of deaths for Virginia residents was 40,798, an increase of 149, or 0.4 percent, over the 40,649 deaths reported in 1978. The resulting death rate of 7.8 per 1,000 population was slightly lower than the 7.9 rate for 1978. The comparable provisional rate for the United States was 8.7 per 1,000 population in 1979.

NUMBER OF RESIDENT DEATHS AND DEATH RATES PER 1,000 POPULATION BY RACE
VIRGINIA, 1975-1979

Year	Total		White		Number	
	Number	Rate	Number	Rate	Number	Rate
1975	39,543	8.0	30,522	7.5	9,021	10.0
1976	40,056	8.0	30,946	7.6	9,110	9.7
1977	39,744	7.7	30,642	7.3	9,102	9.6
1978	40,649	7.9	31,497	7.6	9,152	9.2
1979	40,798	7.8	31,749	7.6	9,049	8.2

For all Virginia residents, the median age at death was 70.1 -- a 0.1 year increase over the 70.0 median age in 1978. The median age at death for whites increased by 0.2 years in 1979, while the nonwhite median age increased by 0.1 years. The median age at death for Virginia males decreased by 0.2 years, while the figure for females remained the same.

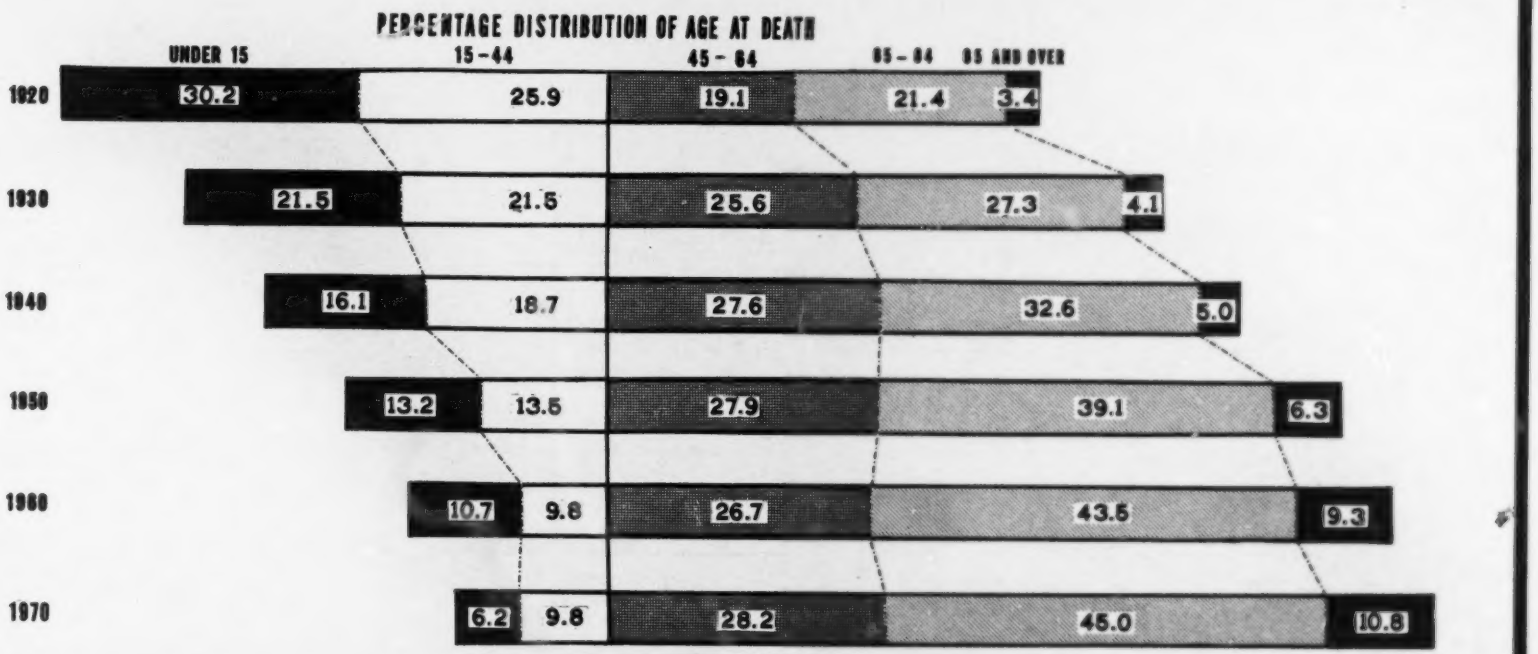
MEDIAN AGE AT DEATH BY RACE BY SEX
VIRGINIA, 1978 AND 1979

Sex	Total		White		Nonwhite	
	1978	1979	1978	1979	1978	1979
Total	70.0	70.1	71.1	71.3	66.0	66.1
Male	67.1	66.9	67.9	67.8	64.0	63.8
Female	74.4	74.4	75.8	75.9	68.8	68.9

Of the total resident deaths, 6.1 percent occurred outside the State. The District of Columbia or one of the states that border Virginia accounted for 84.0 percent of these deaths. Of the 1,841 deaths which occurred to out-of-state residents in Virginia, 67.2 percent involved those who were residents of the bordering areas.

Chart E

CHANGING PATTERNS IN MORTALITY
VIRGINIA SINCE 1920



NOTE: PERCENTAGE DISTRIBUTIONS ARE BASED ON THREE YEARS AROUND THE DECENNIAL YEAR.

DEATHS INVOLVING VIRGINIA AND BORDERING AREAS, 1979

Area	Virginia residents dying out-of-state		Out-of-state residents dying in Virginia	
	Number	Percent	Number	Percent
TOTAL	2,469	100.0	1,841	100.0
Tennessee	554	22.4	101	5.5
District of Columbia	517	20.9	95	5.2
Maryland	361	14.6	180	9.8
North Carolina	315	12.8	446	24.2
West Virginia	276	11.2	382	20.7
Kentucky	52	2.1	33	1.8
Other	394	16.0	604	32.8

December had the greatest frequency of deaths with 3,800 and also the largest daily average (123). The smallest number of deaths occurred in June (3,175), but July had the lowest daily average of 104.

DAILY AVERAGE OF RESIDENT DEATHS BY MONTH
VIRGINIA, 1979

Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
112	115	122	116	109	107	106	104	105	108	116	112	123

Leading Causes of Death. The overall trend for the number as well as the rate of deaths due to malignant neoplasms has been increasing. In Virginia, both were at their all-time high in 1979. The respiratory system with 2,385 and the digestive organs and peritoneum with 2,164 were the sites most often reported as primary. These sites accounted for more than one-half of all resident deaths attributed to malignant neoplasms.

NUMBER AND RATE PER 100,000 POPULATION FOR THE MAJOR CAUSES OF DEATH
FOR SELECTED YEARS, VIRGINIA, 1950-1979

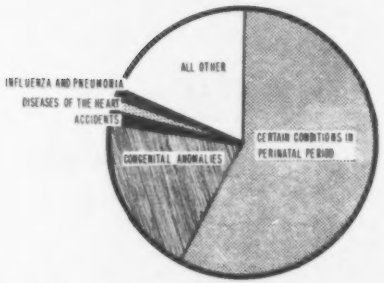
Year	Diseases of Heart		Malignant Neoplasms		Cerebrovascular Diseases		All Accidents	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	9,941	299.5	3,389	102.1	3,653	110.1	2,058	62.0
1955	10,825	295.8	4,058	110.9	3,881	106.1	2,005	54.8
1960	12,512	314.1	4,730	118.8	4,153	104.3	2,000	50.2
1965	13,698	309.5	5,534	125.0	4,256	96.2	2,442	55.2
1970	14,494	310.7	6,383	136.8	4,175	89.5	2,588	55.5
1975	14,587	293.7	7,463	150.3	3,932	79.2	2,508	50.5
1976	14,895	296.0	7,533	149.7	3,958	78.7	2,385	47.4
1977	14,460	281.6	7,962	155.1	3,852	75.0	2,597	50.6
1978	15,275	296.7	8,117	157.7	3,746	72.8	2,404	46.7
1979	15,366	292.2	8,628	164.0	3,715	70.6	2,213	42.1

Chart F

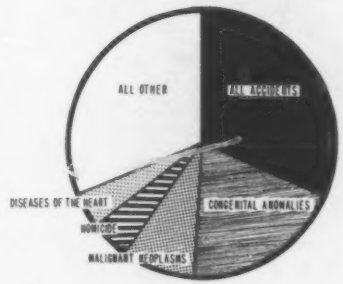
LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS

VIRGINIA , 1979

INFANT UNDER 1 YEAR

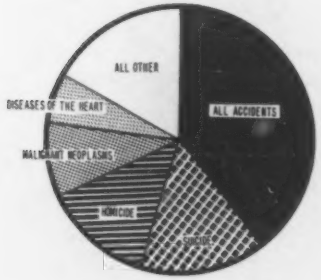


PRESCHOOL , 1-4 YEARS

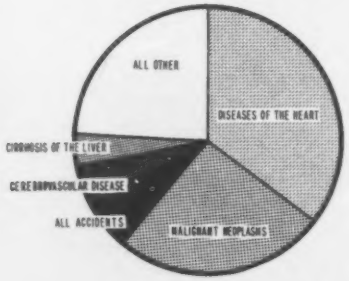


SCHOOL , 5-19 YEARS

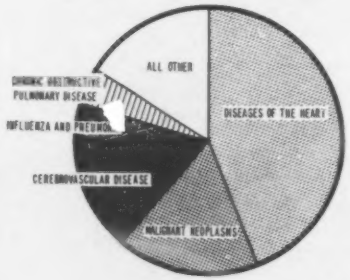
YOUNG ADULT , 20-34 YEARS



ADULT, 35 - 64 YEARS



RETIRED , 65 YEARS AND OVER



During the past 29 years, the four leading causes of death have been diseases of heart, malignant neoplasms, cerebrovascular disease, and accidents ranking first to fourth, respectively, each year. These four causes together have accounted for more than seven out of every ten Virginia resident deaths since 1966.

LEADING CAUSES OF RESIDENT DEATHS BY RACE AND SEX
VIRGINIA, 1979

Cause	Total		White				Nonwhite			
			Male		Female		Male		Female	
	Number	Rank	Number	Rank	Number	Rank	Number	Rank	Number	Rank
ALL CAUSES	40,798		17,449		14,300		5,124		3,925	
Diseases of heart (390-398,402,404-429)	15,366	1	6,867	1	5,430	1	1,675	1	1,394	1
Malignant neoplasms (140-208)	8,628	2	3,719	2	3,080	2	1,063	2	766	2
Cerebrovascular disease (430-438)	3,715	3	1,036	4	1,739	3	453	3	487	3
Accidents, all types (E800-E949)	2,213	4	1,199	3	518	4	365	4	131	4
Influenza & pneumonia (480-487)	1,025	5	415	7	378	5	146	6	86	7
Chronic obstructive pulmonary diseases (490-496)	1,010	6	591	5	299	6	92	8	28	15
Suicide (E950-E959)	775	7	521	6	172	9	67	10	15	16
Certain conditions originating in the perinatal period (760-779)	651	8	234	9	157	10	133	7	127	5
Diabetes mellitus (250)	597	9	166	12	223	8	91	9	117	6
Atherosclerosis (440)	574	10	192	10	278	7	38	14	66	8
Other causes	6,244		2,509		2,026		1,001		708	

NOTE: Numbers in parentheses are from ICD, 9th Revision.

Accidental Deaths. Accidents were responsible for the deaths of 2,213 Virginia residents in 1979 -- a 7.9 percent decrease from 1978. The accidental death rate for 1979 was 42.1 per 100,000 population compared to the provisional United States rate of 47.9.

RESIDENT DEATHS FROM ACCIDENTS AND CAUSES OTHER THAN ACCIDENTS
WITH PERCENTAGES OF TOTAL DEATHS IN SPECIFIED AGE GROUPS, VIRGINIA, 1979

Age	Accidental Deaths		Non-Accidental Deaths	
	Number	Percent	Number	Percent
TOTAL	2,213	5.4	38,585	94.6
Under 1	18	1.6	1,117	98.4
1-4	52	34.4	99	65.6
5-14	115	47.7	126	52.3
15-24	490	51.6	459	48.4
25-44	524	21.7	1,896	78.3
45-64	502	4.7	10,132	95.3
65-74	193	2.0	9,692	98.0
75 and over	319	2.1	15,057	97.9
Unknown			7	

As in previous years, accidents was the leading cause of death for Virginians in age groups 1-4 years, 5-14 years, 15-24 years and 25-44 years. These age groups accounted for only 3,761, or 9.2 percent, of the total 40,798 deaths; but, 53.4 percent of all accidental deaths occurred in these age groups. Accidents accounted for 657, or 49.0 percent, of the 1,341 deaths of Virginians aged 1 through 24.

Males accounted for 70.7 percent of the accidental deaths compared to 55.3 percent of all deaths. White males alone were over half (54.2 percent) of the accidental death victims. For all major types of accidents, males had a much higher number of deaths than females.

Motor vehicles was again the major cause of accidental deaths contributing 45.3 percent of the total. The 1,002 motor vehicle deaths represented a 7.3 percent decrease compared to 1978. The motor vehicle death rate for 1979 was 19.1 per 100,000 population compared to the United States rate of 24.5 for the same year. Of the total motor vehicle fatalities, 63.5 percent were in the age group 15 through 44.

RESIDENT ACCIDENTAL DEATHS BY LEADING TYPES OF ACCIDENTS BY SEX
VIRGINIA, 1979

Type of Accident	Total	Male	Female
TOTAL	2,213	1,564	649
Motor vehicle (E810-E825)	1,002	720	282
Falls (E880-E888)	309	146	163
Fires (E890-E899)	139	87	52
Poisoning, all types (E850-E869)	131	99	32
Drowning and submersion (E910)	125	107	18
Suffocation from inhaled or ingested object (E911-E912)	78	47	31
Falling or projected object or caught between objects (E916-E918)	45	45	
Firearms (E922)	45	40	5
Machinery (E919)	43	41	2
Excessive heat or cold or exposure (E900-E904)	39	30	9
Water transport (E830-E838)	36	33	3
Surgical and medical misadventures and complications (E870-E879)	35	17	18
Electric current (E925)	33	31	2
Aircraft (E840-E845)	31	29	2
All other	122	92	30

NOTE: Numbers in parentheses are from ICD, 9th Revision.

The second major cause of accidental deaths was falls, representing 14.0 percent of the total. Of these deaths due to falls, 72.2 percent occurred to those who were 65 years or older.

Of the total accidental deaths, 484, or 21.9 percent, occurred on the home premises. The two principal causes for home accidents were falls (174 deaths) and fire (128 deaths), representing 62.4 percent of all home accidental deaths. There were 19 firearm fatalities in the home representing 42.2 percent of the total accidental deaths by this means. In addition to the 484 home accident deaths, 6 motor vehicle deaths and 1 other road vehicle death occurred on the home premises.

Persons 65 years and older were victims in 40.3 percent of the home accident fatalities. This age group accounted for 71.3 percent of the accidental fall deaths and 33.6 percent of the accidental fire deaths in the home.

CLASSIFICATION OF RESIDENT ACCIDENTAL DEATHS BY RACE, VIRGINIA, 1979

Classification of Accident	Total	White	Nonwhite
TOTAL ACCIDENTAL DEATHS	2,213	1,717	496
Accidental deaths specified as to type:			
Motor vehicle (E810-E825)	1,002	820	182
Other transport (E800-E807,E826-E849)	94	82	12
Home (E850-E949, home)	484	332	152
Other (E850-E949, residual)	633	483	150

NOTE: Numbers in parentheses are from ICD, 9th Revision.

Suicide. Suicide, the seventh leading cause of death in 1979, has been among the ten leading causes of death since 1965. There were 775 suicide deaths recorded for Virginia residents in 1979, representing an increase of 5.9 percent over the 732 occurring in 1978. The resulting rate, 14.7 deaths per 100,000 population, was higher than the United States rate of 12.6 for 1979.

Suicides were more frequent among whites than nonwhites. While nonwhites comprised 21.1 percent of the population in 1979, only 10.6 percent of the suicidal deaths occurred in that group. Of all suicides, 67.2 percent involved white males; 22.2 percent, white females; 8.6 percent, nonwhite males; and 1.9 percent, nonwhite females.

RESIDENT SUICIDES BY AGE, BY RACE AND SEX
WITH RATES PER 100,000 POPULATION, VIRGINIA, 1979

Race/Sex	Total	Age Groups							
		Under 15	15-24	25-34	35-44	45-54	55-64	65-74	75 and Over
TOTAL	775	4	144	147	138	113	108	72	49
White male	521	3	106	95	90	70	71	53	33
White female	172	1	19	32	31	34	28	12	15
Nonwhite male	67		15	19	14	5	8	5	1
Nonwhite female	15		4	1	3	4	1	2	
TOTAL RATES*	19.0		14.0	16.4	21.6	20.9	22.4	22.8	26.8
White male	32.3		25.6	26.0	33.6	31.9	38.1	48.7	65.5
White female	10.0		4.8	8.8	11.8	14.9	13.3	8.1	15.0
Nonwhite male	18.5		14.2	23.1	27.7	11.5	19.8	18.8	8.0
Nonwhite female	3.7		3.7	1.2	5.3	7.9	2.2	6.1	0.0

*Rates for totals of Race/Sex groups based on ages 15 and over.

The largest percentage of those taking their own lives, 19.0 percent, was for the group aged 25-34 years. The greatest age specific rate, however, occurred for persons aged 75 years and over. In regard to age-race-sex specific rates, white male rates were highest for all age groups. Except for age group 45-54, the rates for white males increased as age increased.

In 1979, suicide was the second leading cause of death for the age group 15-24 (after accidents) and it was the fourth leading cause for the age group 25-44 (after accidents, cancer, and heart disease).

Firearms and explosives were the implements used in 69.5 percent of the suicides. Of the 539 deaths by this means, 54.4 percent were aged 15-44 years. This method was used by 398, or 76.4 percent, of the 521 white males committing suicide and by 46, or 68.7 percent, of the nonwhite males. The second most used method in 1979, poisoning by drugs and medicaments, was responsible for 87, or 11.2 percent, of the total suicides; 52.9 percent of these were white females and 37.9 percent were white males.

RESIDENT SUICIDES BY RACE, SEX AND METHOD
VIRGINIA, 1979

Method	Total	Race/Sex			
		White Male	White Female	Nonwh Male	Nonwh Female
TOTAL	775	521	172	67	15
Firearms and explosives (E955)	539	398	88	46	7
Poisoning by drugs and medicaments (E950.0-E950.5)	87	33	46	3	5
Hanging, strangulation, and suffocation (E953)	74	41	22	11	
Poisoning by domestic and other gases (E951-E952)	40	30	8	2	
Submersions (drownings) (E954)	12	5	3	1	3
Jumping from high places (E957)	9	6	3		
Poisoning by other solid and liquid substances (E950.6-E950.9)	6	4	2		
Cutting and piercing instruments (E956)	2	2			
Other and unspecified means (E958)	6	2		4	

NOTE: Numbers in parentheses are from ICD, 9th Revision.

Homicides. Of the 40,798 deaths occurring to Virginia residents in 1979, homicides accounted for 1.2 percent. The total, 501, represented an increase of 4.4 percent over the 480 homicidal deaths in 1978. Virginia's death rate resulting from homicides, 9.5 per 100,000 population, was higher than the State's 9.3 rate for 1978 but lower than the United States rate of 10.5 in 1979.

In 1979, 262 of the homicide victims were white and 239 were nonwhite, producing rates of 6.3 and 21.6 per 100,000 population, respectively. Homicide was the fifth ranking cause of death for nonwhite males, the eleventh for nonwhite females, the eleventh for white males, and the fifteenth for white females.

RESIDENT HOMICIDE DEATHS BY RACE BY METHOD
VIRGINIA, 1979

Method	Total	White	Nonwhite
TOTAL	501	262	239
Assault by:			
Firearms and explosives (E965)	361	189	172
Cutting and piercing instruments (E966)	56	25	31
Hanging and strangulation (E963)	12	9	3
Submersion (drowning) (E964)	2	1	1
Poisoning (E962)	1	1	
Other and unspecified means (E968)	55	28	27
Child battering and other maltreatment (E967)	4	2	2
Fight, brawl, rape (E960)	1	1	
Late effect of injury purposely inflicted by another person (E969)	2	1	1
Injury due to legal intervention (E970-E978)	7	5	2

NOTE: Numbers in parentheses are from ICD, 9th Revision.

Homicide was the third leading cause of death for the 15-24 age group, fourth for the 1-4 and 5-14 age groups, and fifth for the 25-44 age group. The median age of death for homicide victims was 34.0 years. For nonwhite males, it was 34.4 years, and for white males, 34.3 years.

Firearms and explosives were the implements used in 361, or 72.1 percent, of the homicides in 1979. Assault by cutting and piercing instruments, with 56, was the second most frequently used method. Seven deaths were the result of injuries inflicted through legal intervention.

MARRIAGES

In 1979, 58,678 marriages were performed in Virginia, a decrease of 289, or 0.5 percent, from the 58,967 marriages recorded in 1978. This was the first year to show a decrease since 1975. Virginia's rate of 11.2 per 1,000 population for 1979 was higher than the United States provisional rate of 10.7 per 1,000 population.

MARRIAGES BY RACE AND SEX
VIRGINIA, 1979

Race/Sex	Total	White Females	Black Females	Other Females
TOTAL	58,678	49,989	8,176	513
White males	49,775	49,425	119	231
Black males	8,479	409	8,042	28
Other males	424	155	15	254

Marriages between white males and white females decreased slightly (0.8 percent) from the previous year, while for marriages where both parties were black, there was a small (1.1 percent) increase.

There were 957 interracial marriages in 1979, with 528 of these being between whites and blacks. A total of 409 involved black males and white females, and 119 were between white males and black females. There were 43 marriages recorded between persons classified as black and "other" race, while 386 involved "other" race and whites.

MARRIAGES WHERE AT LEAST ONE PARTY WAS A NONRESIDENT
BY STATE OF RESIDENCE, VIRGINIA, 1979

State of Residence	Both from Same State	Bride's State	Groom's State
West Virginia	2,883	3,168	3,184
Kentucky	2,322	2,498	2,513
Ohio	2,046	2,224	2,273
Pennsylvania	1,095	1,229	1,286
North Carolina	509	686	989
Tennessee	478	616	709
Maryland	460	742	887
District of Columbia	407	570	599
New York	198	294	708
Indiana	163	200	228

For 41,893 marriages (71.4 percent), both the bride and the groom were residents of Virginia. There were 3,135 (5.3 percent) marriages between resident brides and non-resident grooms, and 1,164 (2.0 percent) between non-resident brides and resident grooms.

Marriages in which both bride and groom were non-residents of Virginia numbered 12,486 in 1979, 21.3 percent of the total number of marriages performed. This was a decrease of 5.4 percent from the 1978 number of 13,195. States of residence most frequently reported by non-resident brides and grooms married in Virginia were West Virginia, Kentucky, Ohio and Pennsylvania.

Richmond city, with 3,097, led the State in the number of marriages performed. Following in descending order were Norfolk city (2,968), Fairfax county (2,895), Dickenson county (2,714), and Virginia Beach city (2,414). These five cities and counties accounted for 24.0 of the total marriages in 1979.

As in 1977 and 1978, the most frequently stated age for grooms in 1979 was twenty-two. This varied from the long time stable twenty-one of previous years. The most frequently stated age for brides remained eighteen. Marriages involving brides under twenty-one constituted 33.0 percent of the total marriages, whereas the percent for grooms was 17.5. Couples where both parties were under twenty-one constituted 15.0 percent of the total marriages. Among the brides, 14,812, or 25.2 percent, and among the grooms, 6,255, or 10.7 percent, were teenagers. The median ages for brides and grooms married in 1979 were 23.4 and 25.8 years, respectively. Comparable 1978 median ages were 23.2 and 25.6.

The 31,278 first marriages for both parties in 1979 accounted for 53.3 percent of the total marriages. The median ages for brides and grooms married for the first time were 20.7 and 22.7.

Brides who had previously been married represented 34.7 percent of the total brides and previously married grooms represented 36.0 percent of the 1979 grooms. In 1978, the percentages for previously married brides and grooms were 34.9 and 36.0, respectively.

MARRIAGE CEREMONIES, NUMBER AND PERCENT
BY TYPE OF OFFICIANT, VIRGINIA, 1979

Type of Officiant	Number	Percent
TOTAL	58,678	100.0
Religious ceremonies	44,221	75.4
Protestant	40,341	68.8
Catholic	2,156	3.7
Jewish	239	0.4
Other denomination	1,045	1.8
Denomination unknown	440	0.7
Civil	14,448	24.6
Unknown	9	*

*Less than 0.05 percent.

The 44,221 religious ceremonies accounted for 75.4 percent of the total 1979 marriages. Protestant clergymen officiated for 91.2 percent of the religious ceremonies, and Catholic clergymen officiated for 4.9 percent.

The number of civil ceremonies (14,448) increased by 1.3 percent over the 1978 figure of 14,263. Civil ceremonies accounted for 24.6 percent of the total marriages in 1979.

June, as in previous years, was the most popular month for marriages in 1979. During that month, 7,397 marriages were performed with 82.0 percent of these being religious ceremonies. August with 6,183 and July with 5,492 marriages were the second and third most popular months for marriage in 1979. The fewest marriages occurred in January with 2,994. The daily averages for the months are given in the table below.

DAILY AVERAGE OF MARRIAGES BY MONTH
VIRGINIA, 1979

Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
161	97	121	132	157	161	247	177	199	178	148	152	160

Of the 37,513 grooms marrying for the first time, 74.8 percent had completed at least 12 years of school. Among the 30,851 white grooms married for the first time, 19.2 percent had finished four or more years of college, while 10.2 percent of the 6,662 nonwhite grooms had finished four or more years of college.

Brides marrying for the first time totaled 38,299 with 76.2 percent completing at least four years of high school. White and nonwhite brides completing four or more years of college were 17.5 and 13.8 percent, respectively.

PERCENT COMPLETING LAST GRADE FOR BRIDES AND GROOMS
MARRYING FOR THE FIRST TIME BY RACE
VIRGINIA, 1979

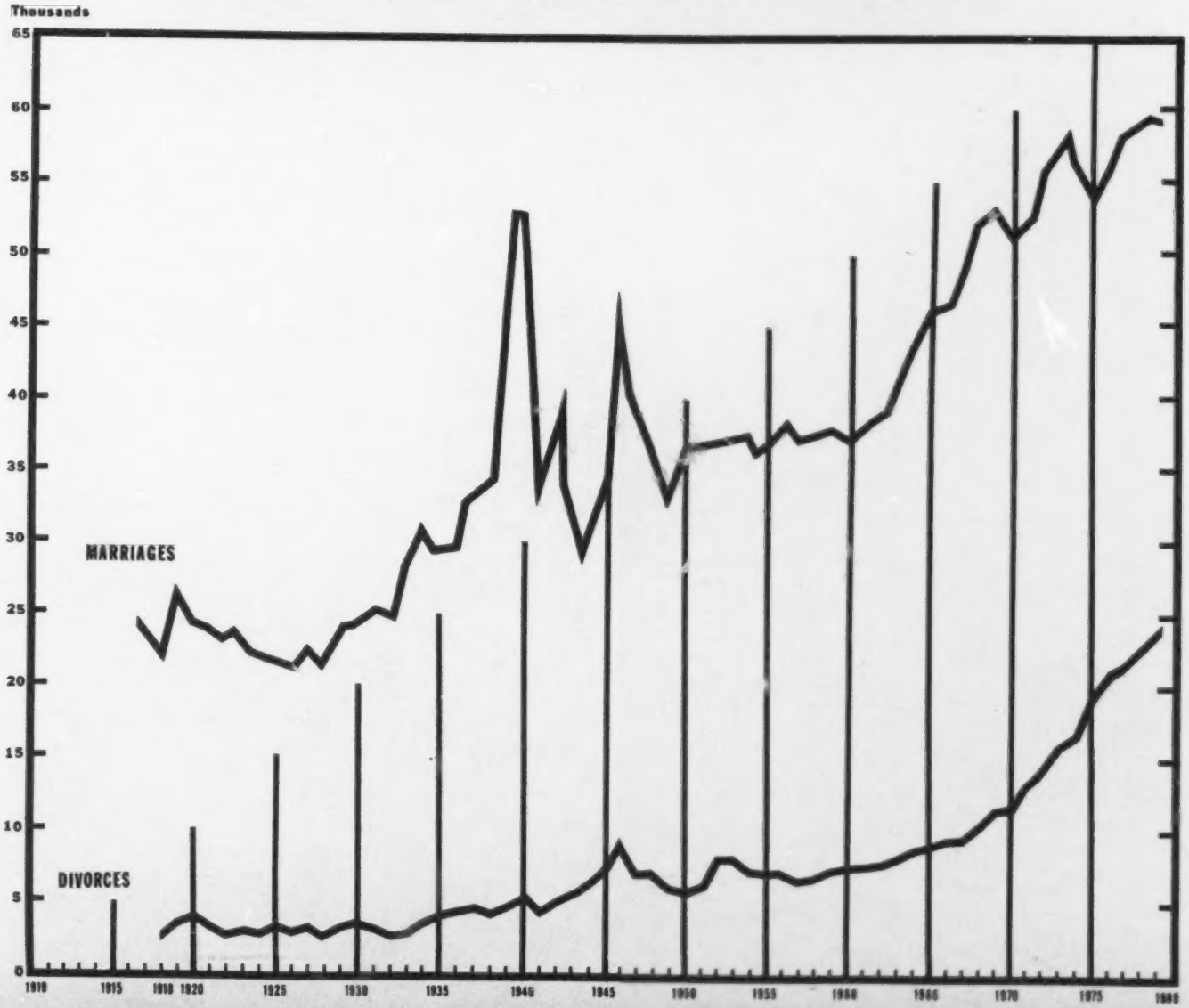
Race	Total	Elem.		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4 or more	
Groom								
Total	100.0	1.1	4.0	20.1	41.5	15.7	17.6	*
White	100.0	0.9	4.0	19.6	40.6	15.5	19.3	0.1
Nonwhite	100.0	2.0	3.6	22.4	45.4	16.3	10.2	0.1
Bride								
Total	100.0	0.5	3.0	20.2	42.0	17.4	16.8	0.1
White	100.0	0.4	3.0	20.5	41.3	17.2	17.5	0.1
Nonwhite	100.0	0.9	2.8	18.8	45.2	18.4	13.8	0.1

*Less than 0.05 percent.

Of the 21,149 grooms previously married, 71.0 percent completed at least 12 years of school, and 17.6 percent finished four years of college. For the 20,360 previously married brides, 68.9 percent completed at least high school, and 9.4 percent finished four years of college.

Chart G

MARRIAGES AND DIVORCES IN VIRGINIA SINCE 1918



DIVORCES AND ANNULMENTS

The total of 23,555 divorces and annulments granted in 1979 gave Virginia a rate of 4.4 per 1,000 population which was the same as the rate in 1978. Although the 1979 rate tied for the highest divorce rate on record in Virginia, it was still lower than the 1979 provisional rate of 5.3 for the United States.

The 1979 Virginia total represented a 4.0 percent increase over the 22,654 divorces and annulments recorded in 1978. This increase, however, was lower than the 5.6 percent increase from 1977 to 1978.

In 1979, there were 279 interracial divorces with 91 separating white and black persons. Twenty-five divorces involved white males and black females, and 66 involved black males and white females. Twelve divorces were granted between persons classified as "other" races and blacks, while 176 divorces involved whites and "others".

DIVORCES AND ANNULMENTS BY RACE AND SEX
VIRGINIA, 1979

Race/Sex	Total	White Females	Black Females	Other Females
TOTAL	23,555	19,675	3,681	199
White males	19,678	19,543	25	110
Black males	3,728	66	3,653	9
Other males	149	66	3	80

Of the total divorces and annulments, 37.8 percent were granted to persons who were married outside of Virginia.

In 1979, children under 18 were involved in 54.3 percent of the total divorces and annulments. There were approximately 21,955 such children, 632 more than in 1978. In 45.7 percent of the divorces the couples had one or two children, while 8.7 percent of the divorces involved couples with three or more children. Of the divorces in which the husband was white, 52.6 percent had one or more children as compared to 63.0 percent for those divorces in which the husband was nonwhite.

PERCENT OF DIVORCES AND ANNULMENTS WITH NUMBER OF CHILDREN IN FAMILY
BY RACE OF HUSBAND, VIRGINIA, 1979

Children Per Family (18 years and under)	Total	White		Nonwhite	
		Number	Percent	Number	Percent
TOTAL	23,555	19,678	100.0	3,877	100.0
None	9,734	8,419	42.8	1,315	33.9
1 child	6,427	5,243	26.6	1,184	30.5
2 children	4,326	3,556	18.1	770	19.9
3 children	1,481	1,164	5.9	317	8.2
4 or more children	558	386	2.0	172	4.4
Not stated	1,029	910	4.6	119	3.1

In 1979, the median age at divorce for all men was 32.8 years, and 30.7 years for all women. Wives under twenty-one were involved in 4.1 percent of all divorces and annulments occurring in 1979, while only 1.1 percent of divorces involved husbands who were under twenty-one.

Virginia law allows divorce for only a limited number of reasons. In 1979, a total of 81.6 percent of the divorces were granted on grounds of separation for more than one year and 13.6 percent, for desertion. In 60.7 percent of the cases, the divorce was granted to the wife. Annulments totaled 119 in 1979.

NUMBER OF DIVORCES AND ANNULMENTS BY CAUSE WITH PERCENT BY PERSON TO WHOM DIVORCE WAS GRANTED, VIRGINIA, 1979

Cause	Total	Person to Whom Granted					
		Husband		Wife		Other/Unknown	
		Number	Percent	Number	Percent	Number	Percent
TOTAL	23,555	9,038	38.3	14,300	60.7	217	0.9
Separation	19,223	7,552	39.3	11,496	59.8	175	0.9
Desertion	3,199	1,151	36.0	2,026	63.3	22	0.7
Adultery	489	229	46.8	259	53.0	1	0.2
Cruelty	433	45	10.4	380	87.8	8	1.8
Imprisonment	54	2	3.7	52	96.3		
Pregnancy by other before marriage	1	1	100.0				
Other/unknown	37	15	40.5	15	40.5	7	18.9
Annulments	119	43	36.1	72	60.5	4	3.4

Couples for which both parties were ending their first marriage accounted for 71.3 percent of the total number of divorces granted. Of the divorced women, 79.6 percent were ending their first marriage and 16.5 percent, their second marriage. The comparable percentages for men getting divorced were 79.6 and 16.7 percent, respectively.

The median duration of the marriage to separation for all divorces was 5.7 years. For divorces in which the husband was white, the median length of time from marriage to separation was 5.9 years, while for divorces in which the husband was nonwhite, the comparable length of time was 4.9 years. For 19.8 percent of the marriages, the couples separated in less than two years, 31.9 percent in 2-5 years, 19.0 percent in 6-9 years, and 29.1 percent in 10 years or more. The duration of marriage was unknown for 0.3 percent of the records.

The largest number of divorces and annulments was granted in Fairfax county (2,552) which includes Fairfax city and Falls Church. This area was followed by Virginia Beach (1,362), Norfolk (1,354), and Richmond city (1,187).

December, with 2,266, was the month with the greatest frequency of divorces. Following in descending order were August (2,179), May (2,117), October (2,105), and June (1,965). The average numbers of divorces per day by month for 1979 are shown in the following table.

DAILY AVERAGE OF DIVORCES AND ANNULMENTS BY MONTH VIRGINIA, 1979

Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
65	57	54	61	64	68	66	63	70	65	68	65	73

Of the 23,555 husbands receiving divorces in 1979, 16,269, or 69.1 percent, had completed at least 12 years of school. Among the 19,678 white husbands, 14,185, or 72.1 percent, had finished 12 years or more of school, while only 2,084, or 53.8 percent, of the 3,877 nonwhite husbands had finished 12 years or more.

PERCENT COMPLETING LAST GRADE FOR HUSBANDS AND WIVES DIVORCED
VIRGINIA, 1979

Race	Total	Elem.		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4 or more	
Husband								
Total	100.0	3.9	7.3	16.5	36.7	14.4	18.0	3.2
White	100.0	3.3	7.0	15.1	37.0	14.7	20.4	2.5
Nonwhite	100.0	6.9	9.0	23.7	35.2	12.6	6.0	6.6
Wife								
Total	100.0	2.0	5.6	17.5	43.9	16.0	12.3	2.7
White	100.0	1.7	5.2	16.3	44.6	16.6	13.2	2.4
Nonwhite	100.0	3.5	7.7	24.0	40.0	12.9	7.4	4.5

Among the wives, 72.1 percent had completed 12 or more years of education. White and nonwhite wives completing 12 or more years of education were 74.4 and 60.4 percent, respectively. Education was unknown for 3.2 percent of the husbands and 2.7 percent of the wives.

TABLE 1 - VITAL EVENTS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH RATES
(MARRIAGES AND DIVORCES BY PLACE OF OCCURRENCE), VIRGINIA, 1979

Planning District/ City or County	Live Births		All Deaths		Infant Deaths		Induced Abortions	Natural Fetal Deaths	Marriages	Divorces	Estimated Total Population
	Number	Rate	Number	Rate	Number	Rate					
STATE OF VIRGINIA	76,899	14.6	40,798	7.8	1,135	14.8	19,455	6,205	58,678	23,555	5,259,424
District 1	1,531	15.5	982	10.0	33	21.6	99	56	2,309	314	98,617
Lee	359	13.9	263	10.2	8	22.3	10	12	401	91	25,810
Scott	285	11.5	263	10.6	5	17.5	5	3	493	25	24,877
Wise	820	18.9	410	9.5	16	19.5	62	40	1,337	198	43,316
Norton	67	14.5	46	10.0	4	59.7	12	1	78	*	4,614
District 2	2,250	16.5	1,091	8.0	34	15.1	143	133	4,853	440	136,755
Buchanan	608	16.6	247	6.7	6	9.9	32	47	934	105	36,715
Dickenson	335	16.9	164	8.3	3	9.0	12	28	2,714	66	19,817
Russell	470	15.6	260	8.6	12	25.5	17	22	535	92	30,147
Tazewell	837	16.7	420	8.4	13	15.5	82	36	670	177	50,076
District 3	2,123	12.0	1,737	9.8	41	19.3	371	160	1,866	673	176,877
Bland	69	11.0	51	8.1	2	29.0	7	2	67	21	6,288
Carroll	267	10.4	225	8.7	6	22.5	36	28	216	126	25,795
Grayson	166	10.3	159	9.9	4	24.1	31	20	113	79	16,060
Smyth	399	12.5	307	9.6	6	15.0	85	26	315	144	32,841
Washington	610	14.0	422	9.7	13	21.3	72	37	440	137	44,524
Wythe	315	12.6	253	10.1	5	15.9	82	35	278	83	25,022
Bristol	221	11.2	226	11.4	5	22.6	37	1	370	83	19,761
Galax	76	11.5	94	14.3		0.0	21	11	67	*	6,586
District 4	1,495	10.9	1,031	7.5	25	16.7	797	93	2,994	593	137,678
Floyd	132	11.8	115	10.2	1	7.6	25	11	77	42	11,233
Giles	212	12.2	195	11.2	7	33.0	52	13	1,924	69	17,347
Montgomery	598	13.5	334	7.6	9	15.1	456	46	577	256	61,910
Pulaski	444	13.0	299	8.7	7	15.8	112	23	299	184	34,252
Radford	109	12.8	88	10.3	1	9.2	152		117	42	12,936
District 5	3,024	12.3	2,426	9.8	45	14.9	1,353	370	2,862	1,326	246,364
Alleghany	166	12.5	125	9.4	3	18.1	40	11	210	94	13,324
Botetourt	276	12.2	204	9.0	3	10.9	65	30	179	87	22,619
Craig	47	11.7	41	10.2		0.0	10	4	37	23	4,005
Roanoke	757	11.1	493	7.2	11	14.5	346	96	720	386	69,280
Clifton Forge	63	12.6	76	15.2		0.0	21	6	143	16	4,990
Covington	114	12.6	96	10.6	1	8.8	47	2	294	*	9,045
Roanoke City	1,347	13.6	1,192	12.0	26	19.3	690	184	1,451	602	98,977
Salem	254	11.3	199	8.9	1	3.9	134	37	218	118	24,124
District 6	2,687	13.1	1,788	8.7	33	12.3	675	170	2,036	789	205,425
Augusta	689	13.4	416	8.1	7	10.2	228	53	368	208	53,036
Bath	91	16.1	74	13.1	2	22.0	17	5	133	18	5,668
Highland	56	19.5	38	13.2	1	17.9	4	1	30	4	2,873
Rockbridge	236	13.5	164	9.4	3	12.7	55	3	120	87	17,424
Rockingham	819	15.2	442	8.2	9	11.0	212	52	435	246	55,582
Buena Vista	79	11.8	73	10.9	1	12.7	23	2	82	27	6,677
Harrisonburg	182	14.3	144	11.3	2	11.0	50	18	242	*	19,391
Lexington	64	14.4	76	17.1		0.0	12	2	96	*	7,444
Staunton	268	12.7	219	10.3	6	22.4	44	23	338	107	21,669
Waynesboro	203	13.0	142	9.1	2	9.9	30	11	192	92	15,661
District 7	1,794	13.9	1,259	9.8	21	11.7	301	139	3,239	552	129,121
Clarke	133	14.7	99	11.0		0.0	21	7	100	31	9,019
Frederick	500	15.8	197	6.2	5	10.0	102	41	549	123	31,734
Page	258	13.5	211	11.0	2	7.8	33	22	182	77	19,182
Shenandoah	373	13.7	286	10.5	3	8.0	55	17	258	107	27,198
Warren	288	14.1	211	10.3	6	20.8	54	30	221	91	20,493
Winchester	242	11.3	255	11.9	5	20.7	36	22	1,929	123	21,495
District 8	15,532	14.4	5,311	4.9	150	9.7	6,089	1,184	10,334	4,824	1,079,146
Arlington	1,897	12.8	1,117	7.5	15	7.9	736	73	2,237	719	151,448
Fairfax	7,806	13.7	2,329	4.1	84	10.8	3,393	593	2,895	2,552	576,609
Loudoun	851	15.3	304	5.5	7	8.2	237	55	448	251	55,570
Prince William	2,643	19.0	434	3.1	28	10.6	758	277	919	662	141,033
Alexandria	1,456	14.1	780	7.6	11	7.6	605	114	1,867	640	103,076
Fairfax City	307	15.4	116	5.8	3	9.8	183	10	1,232	*	19,990
Falls Church	115	12.2	130	13.8	2	17.4	116	14	351	*	9,421
Manassas	347	24.0	80	5.5		0.0	58	38	377	*	14,445
Manassas Park	110	14.6	21	2.8		0.0	3	10	8	*	7,554
District 9	1,323	14.8	863	9.6	11	8.3	359	106	776	299	89,560
Culpeper	354	15.9	190	8.5	3	8.5	91	13	195	92	22,319
Fauquier	488	14.6	294	8.8	4	8.2	128	55	315	98	33,628
Madison	133	13.1	108	10.7	1	7.5	37	6	75	33	10,135
Orange	266	15.2	202	11.5	2	7.5	84	25	122	56	17,496
Rappahannock	82	13.7	69	11.5	1	12.2	19	7	69	20	5,982
District 10	1,918	13.7	1,185	8.5	32	16.7	808	106	1,268	605	140,068
Albemarle	704	15.4	346	7.6	12	17.0	354	42	316	219	53,101
Fluvanna	151	15.0	103	10.2	4	26.5	43	11	57	21	10,075
Greene	144	19.2	49	6.5		0.0	30	4	61	20	7,493
Louisa	259	14.6	167	9.4	3	11.6	80	13	139	65	17,779
Nelson	161	13.4	139	11.6	2	12.4	54	13	110	49	12,032
Charlottesville	499	15.4	381	11.7	11	22.0	247	23	585	231	39,588
District 11	2,565	13.4	1,689	8.8	51	19.9	787	272	1,728	831	191,369
Amherst	372	14.4	221	8.6	4	10.8	104	49	224	108	28,562
Appomattox	157	13.3	114	9.6	2	12.7	27	18	95	47	11,829
Bedford	449	13.4	289	8.6	8	17.8	95	43	231	144	33,421
Campbell	641	14.3	274	6.1	11	17.2	144	44	329	209	44,955
Bedford City	70	11.3	97	15.7	3	42.9	21	4	103	*	6,173
Lynchburg	876	14.0	694	11.1	23	26.3	396	114	746	323	66,429

*Included in adjoining county.

(continued)

TABLE 1 - VITAL EVENTS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH RATES (MARRIAGES AND DIVORCES BY PLACE OF OCCURRENCE), VIRGINIA, 1979 (continued)

Planning District/ City or County	Live Births		All Deaths		Infant Deaths		Induced Abortions	Natural Fetal Deaths	Marriages	Divorces	Estimated Total Population
	Number	Rate	Number	Rate	Number	Rate					
STATE OF VIRGINIA	76,899	14.6	40,798	7.8	1,135	14.8	29,455	6,205	58,678	23,555	5,259,424
District 12	3,080	13.0	2,065	8.7	62	20.1	684	263	2,180	822	236,560
Franklin	419	12.6	280	8.4	8	19.1	124	63	246	20	34,454
Henry	792	13.9	396	6.9	9	11.4	190	53	433	266	57,047
Patrick	174	10.3	154	9.1	1	5.7	15	16	155	43	16,931
Pittsylvania	838	12.9	498	7.7	30	35.8	154	67	471	193	64,754
Danville	635	14.2	535	12.0	12	18.9	119	57	564	230	45,403
Martinsville	222	12.4	202	11.2	2	9.0	82	7	311	70	17,971
District 13	1,169	14.1	909	11.0	25	21.4	321	145	712	268	82,627
Brunswick	239	15.2	160	10.2	6	25.1	79	27	109	37	15,721
Halifax	429	14.2	331	10.9	8	18.6	115	52	263	124	30,247
Mecklenburg	399	13.5	343	11.6	10	25.1	104	54	265	107	29,512
South Boston	102	14.3	75	10.5	1	9.8	23	12	75	*	7,147
District 14	1,145	13.8	962	11.6	21	18.3	430	111	648	268	83,062
Amelia	119	14.1	92	10.9	2	16.8	47	12	59	28	8,421
Buckingham	163	14.0	146	12.6	7	42.9	25	13	76	31	11,614
Charlotte	152	12.3	182	14.7	4	26.3	51	24	92	35	12,395
Cumberland	96	12.7	69	9.1	2	20.8	18	4	54	23	7,576
Lunenburg	161	13.2	130	10.7	5	31.1	55	14	97	48	12,168
Nottoway	207	14.0	164	11.1		0.0	96	16	136	48	14,806
Prince Edward	247	18.6	179	13.5	1	4.0	138	28	134	55	16,082
District 15	8,913	14.3	5,243	8.4	163	18.3	5,955	1,008	5,599	3,278	623,104
Charles City Co.	104	15.5	48	7.2	3	28.8	45	9	42	23	6,708
Chesterfield	2,030	15.4	619	4.7	23	11.3	932	235	766	706	135,468
Goochland	133	12.0	87	7.9	4	30.1	70	15	104	38	11,676
Hanover	620	12.3	392	7.8	9	14.5	292	49	420	213	51,130
Henrico	2,301	13.0	1,374	7.7	37	16.1	1,683	270	993	1,055	177,567
New Kent	114	13.7	70	8.4	1	8.8	36	10	67	20	8,326
Powhatan	144	12.8	94	8.4	4	27.8	60	18	110	36	12,728
Richmond City	3,467	17.0	2,559	12.6	82	23.7	2,837	402	3,097	1,187	219,501
District 16	1,764	15.3	765	6.6	18	10.2	520	114	952	475	115,265
Caroline	259	14.9	141	8.1	1	3.9	113	18	127	49	17,416
King George	176	17.3	73	7.2	1	5.7	33	7	78	48	10,252
Spotsylvania	557	17.3	183	5.7	6	10.8	100	32	175	119	32,264
Stafford	574	15.3	191	5.1	5	8.7	146	41	268	165	39,116
Fredericksburg	198	14.0	177	12.5	5	25.3	128	16	304	94	16,217
District 17	512	12.6	505	12.5	6	11.7	163	24	335	131	40,560
Lancaster	106	10.4	135	13.3	3	28.3	38	3	86	34	10,166
Northumberland	123	12.6	129	13.2	1	8.1	35	5	95	29	9,756
Richmond	102	14.9	77	11.3		0.0	30	4	42	30	6,844
Westmoreland	181	13.1	164	11.9	2	11.0	60	12	112	38	13,794
District 18	753	12.9	624	10.7	8	10.6	284	47	395	181	58,155
Essex	135	15.8	74	8.7	2	14.8	60	10	62	36	8,538
Gloucester	262	13.7	172	9.0	3	11.5	89	15	122	63	19,150
King and Queen	89	14.9	69	11.6	3	33.7	26	10	28	23	5,954
King William	117	13.0	98	10.9		0.0	53	7	69	17	9,017
Mathews	65	8.1	103	12.9		0.0	30	3	58	27	7,999
Middlesex	85	11.3	108	14.4		0.0	26	2	56	15	7,497
District 19	2,375	14.8	1,489	9.3	52	21.9	1,127	250	1,878	715	160,749
Dinwiddie	243	12.3	198	10.0	4	16.5	116	24	125	65	21,835
Greensville	183	17.2	111	10.4	7	38.3	82	13	48	63	10,627
Prince George	326	17.2	93	4.9	3	9.2	135	34	233	71	24,116
Surry	90	15.2	69	11.7	2	22.2	36	3	29	19	5,905
Sussex	158	14.4	120	10.9	3	19.0	56	10	76	27	10,962
Colonial Heights	168	10.0	147	8.7	1	6.0	88	23	247	114	16,871
Emporia	82	16.6	60	12.2	3	36.6	16	7	344	*	4,933
Hopewell	408	17.3	209	8.9	10	24.5	163	47	237	142	23,601
Petersburg	717	17.1	482	11.5	19	26.5	435	89	539	214	41,899
District 20	14,722	17.6	6,051	7.2	209	14.2	5,488	1,098	7,806	4,175	837,271
Isle of Wight	307	14.7	169	8.1	6	19.5	84	20	160	55	20,839
Southampton	218	11.8	160	8.7	3	13.8	65	10	147	77	19,029
Chesapeake	1,894	16.7	732	6.5	33	17.4	666	126	621	561	113,439
Franklin City	109	15.0	77	10.6	2	18.3	35	4	66	*	7,246
Norfolk	5,269	22.4	2,217	9.4	74	14.0	1,944	416	2,968	1,354	270,105
Portsmouth	2,021	19.3	1,077	10.3	34	16.8	729	128	1,071	566	105,947
Suffolk	691	14.6	476	10.1	7	10.1	238	93	359	200	47,206
Virginia Beach	4,213	17.1	1,143	4.7	50	11.9	1,727	301	2,414	1,362	253,460
District 21	5,537	16.1	2,216	6.4	83	15.0	2,524	283	3,522	1,801	344,624
James City Co.	280	13.6	136	6.6	2	7.1	66	22	88	92	22,042
York	289	8.4	141	4.1	5	17.3	129	13	220	164	34,690
Hampton	2,059	17.3	798	6.7	30	14.6	1,031	126	1,129	550	123,701
Newport News	2,682	19.1	1,004	7.2	43	16.0	1,084	105	1,598	958	144,595
Poquoson	102	11.4	44	4.9	2	19.6	29	5	57	*	8,944
Williamsburg	125	22.9	93	17.1	1	8.0	185	12	430	37	10,652
District 22	687	14.8	607	13.1	12	17.5	174	70	317	195	46,467
Accomack	440	14.0	428	13.6	10	22.7	126	45	198	148	31,402
Northampton	247	16.4	179	11.9	2	8.1	48	25	119	47	15,065
Unknown							13	3	65		
Out-of-state									4		

*Included in adjoining county.

TABLE 2 - ESTIMATED POPULATION FOR JULY 1, 1979, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA

Planning District City or County	Total	White	Nonwhite
STATE OF VIRGINIA	5,259,424	4,152,277	1,107,147
District 1	98,617	96,993	1,624
Lee	25,810	25,659	151
Scott	24,877	24,697	180
Wise	43,316	42,302	1,014
Norton	4,614	4,335	279
District 2	136,755	134,638	2,117
Buchanan	36,715	36,570	145
Dickenson	19,817	19,684	133
Russell	30,147	29,816	331
Tazewell	50,076	48,568	1,508
District 3	176,877	171,809	5,068
Bland	6,288	6,072	216
Carroll	25,795	25,659	136
Grayson	16,060	15,501	559
Smyth	32,841	32,155	686
Washington	44,524	43,631	893
Wythe	25,022	24,060	962
Bristol	19,761	18,475	1,286
Galax	6,586	6,256	330
District 4	137,678	131,063	6,615
Floyd	11,233	10,834	399
Giles	17,347	16,948	399
Montgomery	61,910	59,009	2,901
Pulaski	34,252	32,290	1,962
Radford	12,936	11,982	954
District 5	246,364	217,243	29,121
Alleghany	13,324	12,943	381
Botetourt	22,619	21,475	1,144
Craig	4,005	3,995	10
Roanoke	69,280	67,316	1,964
Clifton Forge	4,990	4,177	813
Covington	9,045	7,808	1,237
Roanoke City	98,977	76,601	22,376
Salem	24,124	22,928	1,196
District 6	205,425	194,755	10,670
Augusta	53,036	50,811	2,225
Bath	5,668	5,111	557
Highland	2,873	2,855	18
Rockbridge	17,424	16,824	600
Rockingham	55,582	54,547	1,035
Buena Vista	6,677	6,401	276
Harrisonburg	19,391	18,357	1,034
Lexington	7,444	6,454	990
Staunton	21,669	19,129	2,540
Waynesboro	15,661	14,266	1,395
District 7	129,121	123,146	5,975
Clarke	9,019	7,953	1,066
Frederick	31,734	31,185	549
Page	19,182	18,620	562
Shenandoah	27,198	26,748	450
Warren	20,493	19,224	1,269
Winchester	21,495	19,416	2,079
District 8	1,079,146	934,040	145,106
Arlington	151,448	125,169	26,279
Fairfax	576,609	511,330	65,279
Loudoun	55,570	49,863	5,707
Prince William	141,033	125,676	15,357
Alexandria	103,076	74,625	28,451
Fairfax City	19,990	18,659	1,331
Falls Church	9,421	8,759	662
Manassas	14,445	12,852	1,593
Manassas Park	7,554	7,107	447
District 9	89,560	73,678	15,882
Culpeper	22,319	17,597	4,722
Fauquier	33,628	28,104	5,524
Madison	10,135	8,289	1,846
Orange	17,496	14,398	3,098
Rappahannock	5,982	5,290	692
District 10	140,068	113,806	26,262
Albemarle	53,101	46,611	6,490
Fluvanna	10,075	7,085	2,990
Greene	7,493	6,901	592
Louisa	17,779	11,928	5,851
Nelson	12,032	9,130	2,902
Charlottesville	39,588	32,151	7,437
District 11	191,369	154,068	37,301
Amherst	28,562	22,484	6,078
Appomattox	11,829	9,058	2,771
Bedford	33,421	29,536	3,885
Campbell	44,955	37,917	7,038
Bedford City	6,173	4,956	1,217
Lynchburg	66,429	50,117	16,312
District 12	236,560	178,391	58,169
Franklin	34,454	30,222	4,232
Henry	57,047	43,604	13,443
Patrick	16,931	15,574	1,357
Pittsylvania	64,754	45,082	19,672
Danville	45,403	31,679	13,724
Martinsville	17,971	12,230	5,741
District 13	82,627	46,830	35,797
Brunswick	15,721	6,669	9,052
Halifax	30,247	18,086	12,161
Mecklenburg	29,512	17,562	11,950
South Boston	7,147	4,513	2,634
District 14	83,062	50,015	33,047
Amelia	8,421	5,154	3,267
Buckingham	11,614	6,670	4,944
Charlotte	12,395	7,595	4,800
Cumberland	7,576	4,293	3,283
Lunenburg	12,168	7,356	4,812
Nottoway	14,806	8,985	5,821
Prince Edward	16,082	9,962	6,120
District 15	623,104	442,561	180,543
Charles City Co.	6,708	1,400	5,308
Chesterfield	135,468	120,586	14,882
Goochland	11,676	7,401	4,275
Hanover	51,130	44,248	6,882
Henrico	177,567	148,537	29,030
New Kent	8,326	6,048	2,278
Powhatan	12,728	9,461	3,267
Richmond City	219,501	104,880	114,621
District 16	115,265	93,322	21,943
Caroline	17,416	9,647	7,769
King George	10,252	7,822	2,430
Spotsylvania	32,264	27,184	5,080
Stafford	39,116	35,874	3,242
Fredericksburg	16,217	12,795	3,422
District 17	40,560	26,364	14,196
Lancaster	10,166	6,765	3,401
Northumberland	9,756	6,458	3,298
Richmond	6,844	4,647	2,197
Westmoreland	13,794	8,494	5,300
District 18	58,155	41,858	16,297
Essex	8,538	5,032	3,506
Gloucester	19,150	16,084	3,066
King and Queen	5,954	3,145	2,809
King William	9,017	5,745	3,272
Mathews	7,999	6,554	1,445
Middlesex	7,497	5,298	2,199
District 19	160,749	93,180	67,569
Dinwiddie	21,835	12,430	9,405
Greensville	10,627	4,578	6,049
Prince George	24,116	15,899	8,217
Surry	5,905	2,211	3,694
Sussex	10,962	4,267	6,695
Colonial Heights	16,871	16,524	347
Emporia	4,933	2,929	2,004
Hopewell	23,601	18,588	5,013
Petersburg	41,899	15,754	26,145
District 20	837,271	570,741	266,530
Isle of Wight	20,839	12,206	8,633
Southampton	19,029	9,821	9,208
Chesapeake	113,439	80,622	32,817
Franklin City	7,246	3,218	4,028
Norfolk	270,105	164,200	105,905
Portsmouth	105,947	56,926	49,021
Suffolk	47,206	24,519	22,687
Virginia Beach	253,460	219,229	34,231
District 21	344,624	236,452	108,172
James City Co.	22,042	15,527	6,515
York	34,690	28,012	6,678
Hampton	123,701	79,031	44,670
Newport News	144,595	95,737	48,858
Poquoson	8,944	8,838	106
Williamsburg	10,652	9,307	1,345
District 22	46,467	27,324	19,143
Accomack	31,402	19,838	11,564
Northampton	15,065	7,486	7,579

TABLE 3 - ESTIMATED HOUSEHOLD POPULATION FOR JULY 1, 1979, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA

Planning District City or County	Total	White	Nonwhite
STATE OF VIRGINIA	5,087,924	4,022,322	1,065,602
District 1	98,617	96,993	1,624
Lee	25,810	25,659	151
Scott	24,877	24,697	180
Wise	43,316	42,302	1,014
Norton	4,614	4,335	279
District 2	136,755	134,638	2,117
Buchanan	36,715	36,570	145
Dickenson	19,817	19,684	133
Russell	30,147	29,816	331
Tazewell	50,076	48,568	1,508
District 3	175,277	170,242	5,035
Bland	6,288	6,072	216
Carroll	25,795	25,659	136
Grayson	16,060	15,501	559
Smyth	32,041	31,372	669
Washington	43,724	42,847	877
Wythe	25,022	24,060	962
Bristol	19,761	18,475	1,286
Galax	6,586	6,256	330
District 4	115,578	110,116	5,462
Floyd	11,233	10,834	399
Giles	17,347	16,948	399
Montgomery	44,210	42,138	2,072
Pulaski	34,252	32,290	1,962
Radford	8,536	7,906	630
District 5	243,764	214,753	29,011
Alleghany	13,324	12,943	381
Botetourt	22,619	21,475	1,144
Craig	4,005	3,995	10
Roanoke	68,380	66,442	1,938
Clifton Forge	4,990	4,177	813
Covington	9,045	7,808	1,237
Roanoke City	98,977	76,601	22,376
Salem	22,424	21,312	1,112
District 6	191,725	181,978	9,747
Augusta	51,236	49,087	2,149
Bath	5,668	5,111	557
Highland	2,873	2,855	18
Rockbridge	17,424	16,824	600
Rockingham	53,882	52,879	1,003
Buena Vista	6,677	6,401	276
Harrisonburg	12,691	12,014	677
Lexington	4,444	3,853	591
Staunton	21,169	18,688	2,481
Waynesboro	15,661	14,266	1,395
District 7	129,121	123,146	5,975
Clarke	9,019	7,953	1,066
Frederick	31,734	31,185	549
Page	19,182	18,620	562
Shenandoah	27,198	26,748	450
Warren	20,493	19,224	1,269
Winchester	21,495	19,416	2,079
District 8	1,068,346	924,641	143,705
Arlington	148,348	122,607	25,741
Fairfax	571,109	506,453	64,656
Loudoun	55,570	49,863	5,707
Prince William	138,833	123,716	15,117
Alexandria	103,076	74,625	28,451
Fairfax City	19,990	18,659	1,331
Falls Church	9,421	8,759	662
Manassas	14,445	12,852	1,593
Manassas Park	7,554	7,107	447
District 9	89,360	73,511	15,849
Culpeper	22,319	17,597	4,722
Fauquier	33,428	27,937	5,491
Madison	10,135	8,289	1,846
Orange	17,496	14,398	3,098
Rappahannock	5,982	5,290	692
District 10	125,668	101,632	24,036
Albemarle	45,801	40,203	5,598
Fluvanna	10,075	7,085	2,990
Greene	7,493	6,901	592
Louisa	17,779	11,928	5,851
Nelson	12,032	9,130	2,902
Charlottesville	32,488	26,385	6,103
District 11	184,769	148,997	35,772
Amherst	25,762	20,280	5,482
Appomattox	11,829	9,058	2,771
Bedford	33,421	29,536	3,885
Campbell	44,955	37,917	7,038
Bedford City	6,173	4,956	1,217
Lynchburg	62,629	47,250	15,379

Planning District City or County	Total	White	Nonwhite
District 12	234,460	176,693	57,767
Franklin	33,154	29,082	4,072
Henry	57,047	43,604	13,443
Patrick	16,931	15,574	1,357
Pittsylvania	64,754	45,082	19,672
Danville	44,603	31,121	13,482
Martinsville	17,971	12,230	5,741
District 13	82,627	46,830	35,797
Brunswick	15,721	6,669	9,052
Halifax	30,247	18,086	12,161
Mecklenburg	29,512	17,562	11,950
South Boston	7,147	4,513	2,634
District 14	80,262	48,281	31,981
Amelia	8,421	5,154	3,267
Buckingham	11,614	6,670	4,944
Charlotte	12,395	7,595	4,800
Cumberland	7,576	4,293	3,283
Lunenburg	12,168	7,356	4,812
Nottoway	14,806	8,985	5,821
Prince Edward	13,282	8,228	5,054
District 15	600,204	429,129	171,075
Charles City Co.	6,708	1,400	5,308
Chesterfield	131,468	117,025	14,443
Goochland	11,076	7,021	4,055
Hanover	50,230	43,469	6,761
Henrico	177,567	148,537	29,030
New Kent	8,326	6,048	2,278
Powhatan	11,228	8,346	2,882
Richmond City	203,601	97,283	106,318
District 16	111,465	90,122	21,343
Caroline	17,416	9,647	7,769
King George	10,152	7,746	2,406
Spotsylvania	32,264	27,184	5,080
Stafford	37,516	34,407	3,109
Fredericksburg	14,117	11,138	2,979
District 17	40,560	26,364	14,196
Lancaster	10,166	6,765	3,401
Northumberland	9,756	6,458	3,298
Richmond	6,844	4,647	2,197
Westmoreland	13,794	8,494	5,300
District 18	58,155	41,858	16,297
Essex	8,538	5,032	3,506
Gloucester	19,150	16,084	3,066
King and Queen	5,954	3,145	2,809
King William	9,017	5,745	3,272
Mathews	7,999	6,554	1,445
Middlesex	7,497	5,298	2,199
District 19	153,449	88,557	64,892
Dinwiddie	19,735	11,235	8,500
Greensville	10,627	4,578	6,049
Prince George	18,916	12,471	6,445
Surry	5,905	2,211	3,694
Sussex	10,962	4,267	6,695
Colonial Heights	16,871	16,524	347
Emporia	4,933	2,929	2,004
Hopewell	23,601	18,588	5,013
Petersburg	41,899	15,754	26,145
District 20	792,271	541,492	250,779
Isle of Wight	20,839	12,206	8,633
Southampton	18,429	9,511	8,918
Chesapeake	113,239	80,480	32,759
Franklin City	7,246	3,218	4,028
Norfolk	234,805	142,741	92,064
Portsmouth	104,847	56,335	48,512
Suffolk	47,206	24,519	22,687
Virginia Beach	245,660	212,482	33,178
District 21	329,024	225,025	103,999
James City Co.	20,642	14,541	6,101
York	34,390	27,770	6,620
Hampton	119,201	76,156	43,045
Newport News	140,395	92,956	47,439
Poquoson	8,944	8,838	106
Williamsburg	5,452	4,764	688
District 22	46,467	27,324	19,143
Accomack	31,402	19,838	11,564
Northampton	15,065	7,486	7,579

TABLE 4
ESTIMATED POPULATION, BIRTHS, DEATHS, MARRIAGES, AND DIVORCES
WITH RATES PER 1,000 POPULATION BY RACE, VIRGINIA, 1960-1979

YEAR	RACE	ESTIMATED POPULATION	RESIDENT BIRTHS		RESIDENT DEATHS		MARRIAGES		DIVORCES (including annulments)	
			Number	Rate	Number	Rate	Number	Rate	Number	Rate
1960	Total	3,983,156	95,716	24.0	34,400	8.6	37,519	9.4	7,348	1.8
	White	3,156,467	71,713	22.7	25,215	8.0	30,782	9.8	5,660	1.8
	Nonwhite	826,689	24,003	29.0	9,185	11.1	6,737	8.1	1,688	2.0
1961	Total	4,036,326	97,087	24.1	34,008	8.4	38,300	9.5	7,559	1.9
	White	3,200,016	73,027	22.8	25,143	7.9	31,613	9.9	6,005	1.9
	Nonwhite	836,310	24,060	28.8	8,865	10.6	6,687	8.0	1,554	1.9
1962	Total	4,126,150	96,565	23.4	35,618	8.6	39,703	9.6	7,674	1.9
	White	3,279,210	73,150	22.3	26,366	8.0	32,793	10.0	6,075	1.9
	Nonwhite	846,940	23,415	27.6	9,252	10.9	6,910	8.2	1,599	1.9
1963	Total	4,237,473	96,854	22.9	36,904	8.7	42,085	9.9	8,101	1.9
	White	3,374,584	73,078	21.7	27,360	8.1	34,935	10.4	6,542	1.9
	Nonwhite	862,889	23,776	27.6	9,544	11.1	7,150	8.3	1,559	1.8
1964	Total	4,307,591	96,966	22.5	36,525	8.5	43,504	10.1	8,580	2.0
	White	3,435,622	73,051	21.3	27,133	7.9	36,319	10.6	7,033	2.0
	Nonwhite	871,969	23,915	27.4	9,392	10.8	7,185	8.2	1,547	1.8
1965	Total	4,425,637	89,139	20.1	37,043	8.4	45,976	10.4	8,889	2.0
	White	3,540,939	66,788	18.9	27,765	7.8	38,794	11.0	7,307	2.1
	Nonwhite	884,698	22,351	25.3	9,278	10.5	7,182	8.1	1,582	1.8
1966	Total	4,525,976	84,538	18.7	37,358	8.3	46,819	10.3	9,512	2.1
	White	3,636,309	63,747	17.5	28,098	7.7	39,487	10.9	7,841	2.2
	Nonwhite	889,667	20,791	23.4	9,260	10.4	7,332	8.2	1,671	1.9
1967	Total	4,602,091	82,775	18.0	37,191	8.1	48,653	10.6	9,682	2.1
	White	3,706,154	62,769	16.9	27,939	7.5	40,881	11.0	7,975	2.2
	Nonwhite	895,937	20,006	22.3	9,252	10.3	7,772	8.7	1,707	1.9
1968	Total	4,692,675	82,138	17.5	39,687	8.5	52,173	11.1	10,571	2.3
	White	3,780,317	63,296	16.7	29,852	7.9	44,008	11.6	8,715	2.3
	Nonwhite	912,358	18,842	20.7	9,835	10.8	8,165	8.9	1,856	2.0
1969	Total	4,781,175	83,420	17.4	39,048	8.2	52,575	11.0	11,417	2.4
	White	3,858,719	64,833	16.8	29,368	7.6	44,367	11.5	9,460	2.5
	Nonwhite	922,456	18,587	20.1	9,680	10.5	8,208	8.9	1,957	2.1
1970	Total	4,665,532	86,081	18.5	39,009	8.4	51,964	11.1	11,879	2.5
	White	3,772,853	66,657	17.7	29,618	7.9	44,066	11.7	9,880	2.6
	Nonwhite	892,679	19,424	21.8	9,391	10.5	7,898	8.8	1,999	2.2
1971	Total	4,714,227	82,713	17.5	39,464	8.4	52,158	11.1	13,261	2.8
	White	3,825,758	63,592	16.6	30,282	7.9	44,202	11.6	11,083	2.9
	Nonwhite	888,469	19,121	21.5	9,182	10.3	7,956	9.0	2,178	2.5
1972	Total	4,764,000	75,068	15.8	40,886	8.6	55,863	11.7	14,155	3.0
	White	3,871,370	57,440	14.8	31,392	8.1	47,232	12.2	11,741	3.0
	Nonwhite	892,630	17,628	19.7	9,494	10.6	8,631	9.7	2,414	2.7
1973	Total	4,811,000	71,665	14.9	41,103	8.5	58,431	12.1	16,078	3.3
	White	3,921,430	54,877	14.0	31,536	8.0	49,388	12.6	13,202	3.4
	Nonwhite	889,570	16,788	18.9	9,567	10.8	9,043	10.2	2,876	3.2
1974	Total	4,908,000	71,066	14.5	40,561	8.3	56,617	11.5	16,704	3.4
	White	4,015,380	54,248	13.5	31,298	7.8	47,882	11.9	13,871	3.5
	Nonwhite	892,620	16,818	18.8	9,263	10.4	8,735	9.8	2,833	3.2
1975	Total	4,966,200	70,032	14.1	39,543	8.0	54,688	11.0	19,361	3.9
	White	4,068,490	53,207	13.1	30,522	7.5	46,907	11.5	16,332	4.0
	Nonwhite	897,710	16,825	18.7	9,021	10.0	7,781	8.7	3,029	3.4
1976	Total	5,032,300*	69,972	13.9	40,056	8.0	56,469	11.2	21,381	4.2
	White	4,095,340	53,012	12.9	30,946	7.6	48,478	11.8	18,077	4.4
	Nonwhite	936,360	16,960	18.1	9,110	9.7	7,991	8.5	3,304	3.5
1977	Total	5,134,500*	74,246	14.5	39,744	7.7	57,778	11.3	21,459	4.2
	White	4,184,080	55,662	13.3	30,642	7.3	49,175	11.8	18,181	4.3
	Nonwhite	950,520	18,584	19.6	9,102	9.6	8,603	9.1	3,278	3.4
1978	Total	5,148,100*	73,349	14.2	40,649	7.9	58,967	11.5	22,654	4.4
	White	4,152,430	54,921	13.2	31,497	7.6	50,187	12.1	19,182	4.6
	Nonwhite	995,470	18,428	18.5	9,152	9.2	8,780	8.8	3,472	3.5
1979	Total	5,259,424	76,899	14.6	40,798	7.8	58,678	11.2	23,555	4.5
	White	4,152,277	56,736	13.7	31,749	7.6	49,775	12.0	19,678	4.7
	Nonwhite	1,107,147	20,163	18.2	9,049	8.2	8,903	8.0	3,877	3.5

*Due to rounding, the sum of the white and nonwhite is not equal to the total.

TABLE 5

RESIDENT ILLEGITIMATE BIRTHS AND IMMATURE BIRTHS WITH PERCENT OF TOTAL BIRTHS, AND DEATHS UNDER ONE YEAR AND UNDER 28 DAYS WITH RATE PER 1,000 LIVE BIRTHS BY RACE

VIRGINIA, 1960-1979

Year	Race	Illegitimate Births		Immature Births		Infant Deaths			
						Total Under One Year		Under 28 Days	
		Number	Percent	Number	Percent	Number	Rate	Number	Rate
1960	Total	7,560	7.9	N.A.		2,847	29.7	2,001	20.9
	White	1,809	2.5			1,767	24.6	1,332	18.6
	Nonwhite	5,751	24.0			1,080	45.0	669	27.9
1961	Total	7,888	8.1	N.A.		2,704	27.9	1,937	20.0
	White	1,976	2.7			1,669	22.9	1,280	17.5
	Nonwhite	5,912	24.6			1,035	43.0	657	27.3
1962	Total	8,010	8.3	8,493	8.8	2,824	29.2	2,029	21.0
	White	2,088	2.9	5,502	7.5	1,736	23.7	1,332	18.2
	Nonwhite	5,922	25.3	2,991	12.8	1,088	46.5	697	29.8
1963	Total	8,260	8.5	8,771	9.1	2,831	29.2	2,026	20.9
	White	2,324	3.2	5,600	7.7	1,758	24.1	1,333	18.2
	Nonwhite	5,936	25.0	3,171	13.3	1,073	45.1	693	29.1
1964	Total	8,638	8.9	8,716	9.0	2,691	27.8	1,948	20..
	White	2,438	3.3	5,425	7.4	1,644	22.5	1,272	17.4
	Nonwhite	6,200	25.9	3,291	13.8	1,047	43.8	676	28.3
1965	Total	8,900	10.0	7,987	9.0	2,364	26.5	1,675	18.8
	White	2,599	3.9	5,000	7.5	1,475	22.1	1,115	16.7
	Nonwhite	6,301	28.2	2,987	13.4	889	39.8	560	25.1
1966	Total	9,176	10.9	7,581	9.0	2,129	25.2	1,560	18.5
	White	2,847	4.5	4,737	7.4	1,352	21.2	1,058	16.6
	Nonwhite	6,329	30.4	2,844	13.7	777	37.4	502	24.1
1967	Total	9,178	11.1	7,469	9.0	2,007	24.2	1,460	17.6
	White	2,907	4.6	4,710	7.5	1,254	20.0	974	15.5
	Nonwhite	6,271	31.3	2,759	13.8	753	37.6	486	24.3
1968	Total	9,397	11.4	7,221	8.8	1,885	22.9	1,405	17.1
	White	3,139	5.0	4,641	7.3	1,189	18.8	943	14.9
	Nonwhite	6,258	33.2	2,580	13.7	696	36.9	462	24.5
1969	Total	9,583	11.5	7,126	8.5	1,849	22.2	1,399	16.8
	White	3,323	5.1	4,684	7.2	1,231	19.0	963	14.9
	Nonwhite	6,260	33.7	2,442	13.1	618	33.2	436	23.5
1970	Total	10,263	11.9	7,200	8.4	1,790	20.8	1,400	16.3
	White	3,354	5.0	4,549	6.8	1,144	17.2	927	13.9
	Nonwhite	6,909	35.6	2,651	13.6	646	33.3	473	24.4
1971	Total	10,071	12.2	6,658	8.0	1,697	20.5	1,280	15.5
	White	3,004	4.7	4,284	6.7	1,126	17.7	861	13.5
	Nonwhite	7,067	37.0	2,374	12.4	571	29.9	419	21.9
1972	Total	9,806	13.1	5,956	7.9	1,524	20.3	1,161	15.5
	White	2,699	4.7	3,710	6.5	986	17.2	768	13.4
	Nonwhite	7,107	40.3	2,246	12.7	538	30.5	393	22.3
1973	Total	9,514	13.3	5,478	7.6	1,313	18.3	1,000	14.0
	White	2,707	4.9	3,471	6.3	872	15.9	686	12.5
	Nonwhite	6,807	40.5	2,007	12.0	441	26.3	314	18.7
1974	Total	9,738	13.7	5,394	7.6	1,236	17.4	947	13.3
	White	2,782	5.1	3,365	6.2	797	14.7	612	11.3
	Nonwhite	6,956	41.4	2,029	12.1	439	26.1	335	19.9
1975	Total	10,220	14.6	5,377	7.7	1,233	17.6	931	13.3
	White	3,040	5.7	3,322	6.2	802	15.1	600	11.3
	Nonwhite	7,180	42.7	2,055	12.2	431	25.6	331	19.7
1976	Total	10,703	15.3	5,274	7.5	1,143	16.3	838	12.0
	White	3,334	6.3	3,207	6.0	699	13.2	518	9.8
	Nonwhite	7,369	43.4	2,067	12.2	444	26.2	320	18.9
1977	Total	12,125	16.3	5,451	7.3	1,167	15.7	834	11.2
	White	3,742	6.7	3,287	5.9	724	13.0	511	9.2
	Nonwhite	8,383	45.1	2,164	11.6	443	23.8	323	17.4
1978	Total	12,546	17.1	5,399	7.4	989	13.5	692	9.4
	White	3,953	7.2	3,247	5.9	611	11.1	422	7.7
	Nonwhite	8,593	46.6	2,152	11.7	378	20.5	270	14.7
1979	Total	14,246	18.5	5,814	7.6	1,135	14.8	835	10.9
	White	4,417	7.8	3,461	6.1	712	12.5	530	9.3
	Nonwhite	9,829	48.7	2,353	11.7	423	21.0	305	15.1

N.A. - Not Available

TABLE 6
RESIDENT TOTAL PREGNANCY TERMINATIONS, LIVE BIRTHS, ALL FETAL DEATHS, INDUCED ABORTIONS AND NATURAL FETAL DEATHS WITH RATES PER 1,000 FEMALES AGED 15-44 BY RACE
VIRGINIA, 1960-1979

Year	Race	Total Pregnancy Terminations		Live Births		All Fetal Deaths					
						Total		Induced Abortions*		Natural Fetal Deaths*	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1960	Total	N.A.		95,716	114.5	N.A.					
	White			71,713	107.1						
	Nonwhite			24,003	144.3						
1961	Total	104,334	122.2	97,087	113.7	7,247	8.5				
	White	78,666	114.8	73,027	106.6	5,639	8.2				
	Nonwhite	25,668	152.4	24,060	142.9	1,608	9.5				
1962	Total	104,075	119.5	96,565	110.8	7,510	8.6				
	White	79,024	112.8	73,150	104.4	5,874	8.4				
	Nonwhite	25,051	146.9	23,415	137.3	1,636	9.6				
1963	Total	104,363	117.4	96,854	109.0	7,509	8.4				
	White	78,915	110.2	73,078	102.0	5,837	8.2				
	Nonwhite	25,448	147.4	23,776	137.7	1,672	9.7				
1964	Total	104,160	114.9	96,966	107.0	7,194	7.9				
	White	78,645	107.5	73,051	99.8	5,594	7.6				
	Nonwhite	25,515	146.0	23,915	136.9	1,600	9.2				
1965	Total	95,855	103.7	89,139	96.5	6,716	7.3				
	White	72,025	96.4	66,788	89.4	5,237	7.0				
	Nonwhite	23,830	134.8	22,351	126.4	1,479	8.4				
1966	Total	90,957	96.6	84,538	89.8	6,419	6.8				
	White	68,682	90.0	63,747	83.6	4,935	6.5				
	Nonwhite	22,275	124.5	20,791	116.2	1,484	8.3				
1967	Total	88,604	92.4	82,775	86.3	5,829	6.1				
	White	67,248	86.4	62,769	80.6	4,479	5.8				
	Nonwhite	21,356	118.0	20,006	110.5	1,350	7.5				
1968	Total	88,178	90.2	82,138	84.1	6,040	6.2				
	White	67,975	85.6	63,296	79.7	4,679	5.9				
	Nonwhite	20,203	110.3	18,842	102.9	1,361	7.4				
1969	Total	89,801	90.3	83,420	83.9	6,381	6.4				
	White	69,865	86.3	64,833	80.1	5,032	6.2				
	Nonwhite	19,936	107.6	18,587	100.3	1,349	7.3				
1970	Total	94,554	93.4	86,081	85.0	8,473	8.4	1,633	1.6	6,840	6.8
	White	73,388	89.0	66,657	80.8	6,731	8.2	1,428	1.7	5,303	6.4
	Nonwhite	21,166	113.0	19,424	103.7	1,742	9.3	205	1.1	1,537	8.2
1971	Total	92,573	88.8	82,713	79.4	9,860	9.5	3,764	3.6	6,096	5.8
	White	70,720	83.1	63,592	74.7	7,128	8.4	2,528	3.0	4,600	5.4
	Nonwhite	21,853	114.3	19,121	100.0	2,732	14.3	1,236	6.5	1,496	7.8
1972	Total	85,547	79.8	75,068	70.0	10,479	9.8	4,564	4.3	5,915	5.5
	White	64,193	73.2	57,440	65.5	6,753	7.7	2,371	2.7	4,382	5.0
	Nonwhite	21,354	109.4	17,628	90.3	3,726	19.1	2,193	11.2	1,533	7.9
1973	Total	84,373	76.6	71,665	65.0	12,708	11.5	7,136	6.5	5,572	5.1
	White	63,093	69.9	54,877	60.8	8,216	9.1	4,068	4.5	4,148	4.6
	Nonwhite	21,280	106.9	16,788	84.3	4,492	22.6	3,068	15.4	1,424	7.2
1974	Total	90,257	79.7	71,066	62.8	19,191	17.0	13,594	12.0	5,597	4.9
	White	66,896	72.0	54,248	58.4	12,648	13.6	8,437	9.1	4,211	4.5
	Nonwhite	23,361	115.1	16,818	82.9	6,543	32.2	5,157	25.4	1,386	6.8
1975	Total	92,915	80.0	70,032	60.3	22,883	19.7	17,066	14.7	5,817	5.0
	White	67,815	71.0	53,207	55.7	14,608	15.3	10,365	10.9	4,243	4.4
	Nonwhite	25,100	121.3	16,825	81.3	8,275	40.0	6,701	32.4	1,574	7.6
1976	Total	97,604	82.3	69,972	59.0	27,632	23.3	21,563	18.2	6,069	5.1
	White	70,602	72.6	53,012	54.5	17,590	18.1	13,201	13.6	4,389	4.5
	Nonwhite	27,002	126.9	16,960	79.7	10,042	47.2	8,362	39.3	1,680	7.9
1977	Total	105,831	87.2	74,246	61.2	31,585	26.0	25,399	20.9	6,186	5.1
	White	76,298	76.5	55,662	55.8	20,636	20.7	16,170	16.2	4,466	4.5
	Nonwhite	29,533	136.2	18,584	85.7	10,949	50.5	9,229	42.6	1,720	7.9
1978	Total	107,972	86.4	73,349	58.7	34,623	27.7	28,492	22.8	6,131	4.9
	White	78,953	78.5	54,921	54.6	24,032	23.9	19,642	19.5	4,390	4.4
	Nonwhite	29,019	119.5	18,428	75.9	10,591	43.6	8,850	36.4	1,741	7.2
1979	Total	112,559	88.2	76,899	60.2	35,660	27.9	29,455	23.1	6,205	4.9
	White	81,609	79.6	56,736	55.2	24,873	24.3	20,453	20.0	4,420	4.3
	Nonwhite	30,950	123.9	20,163	80.1	10,787	42.8	9,002	35.8	1,785	7.1

N.A. - Not Available
* Only total fetal deaths were reported prior to 1970 when induced abortions became legal.

TABLE 7 - RESIDENT LIVE BIRTHS BY LIVE BIRTH ORDER, BY AGE AND RACE OF MOTHER, VIRGINIA, 1979

Age of Mother	Total Births	LIVE BIRTH ORDER									
		1	2	3	4	5	6	7	8	9	10+	Unk.
TOTAL	76,899	34,908	25,241	10,682	3,730	1,311	508	221	114	73	86	25
Under 15 years	244	242	2									
15-19 years	11,982	9,623	2,005	313	30	4						7
20-24 years	24,945	12,928	8,611	2,648	607	121	22	1	1		1	5
25-29 years	23,323	8,743	8,968	3,831	1,277	351	104	32	8	3	3	3
30-34 years	12,732	2,858	4,814	3,031	1,240	463	171	85	35	19	12	4
35-39 years	3,132	451	771	754	494	304	164	71	52	32	38	1
40-44 years	503	61	66	100	78	64	45	30	17	16	26	
45 years & over	28		2	5	4	4	2	2	1	3	5	
Unknown	10	2	2								1	5
WHITE - Total	56,736	26,366	18,942	7,593	2,451	846	284	130	52	26	28	18
Under 15 years	84	83	1									
15-19 years	7,147	5,959	1,049	124	9	1						5
20-24 years	17,754	9,935	5,983	1,500	281	45	6					4
25-29 years	18,379	7,461	7,155	2,760	758	182	44	13	2	1	1	2
30-34 years	10,501	2,502	4,069	2,495	945	320	100	44	15	3	4	4
35-39 years	2,465	378	628	625	393	246	100	45	24	14	11	1
40-44 years	384	48	53	85	62	49	34	26	11	7	9	
45 years & over	18		2	4	3	3		2		1	3	
Unknown	4		2									2
NONWHITE - Total	20,163	8,542	6,299	3,089	1,279	465	224	91	62	47	58	7
Under 15 years	160	159	1									
15-19 years	4,835	3,664	956	189	21	3						2
20-24 years	7,191	2,993	2,628	1,148	326	76	16	1	1		1	1
25-29 years	4,944	1,282	1,813	1,071	519	169	60	19	6	2	2	1
30-34 years	2,231	356	745	536	295	143	71	41	20	16	8	
35-39 years	667	73	143	129	101	58	64	26	28	18	27	
40-44 years	119	13	13	15	16	15	11	4	6	9	17	
45 years & over	10			1	1	1	2		1	2	2	
Unknown	6	2									1	3

TABLE 8 - PRECENT DISTRIBUTION OF RESIDENT LIVE BIRTHS BY LIVE BIRTH ORDER BY AGE AND RACE OF MOTHER, VIRGINIA, 1979

Age of Mother	Total Births	LIVE BIRTH ORDER									
		1	2	3	4	5	6	7	8	9	10+	Unk.
TOTAL	76,899	45.4	32.8	13.9	4.9	1.7	0.7	0.3	0.1	0.1	0.1	*
Under 15 years	244	99.2	0.8									
15-19 years	11,982	80.3	16.7	2.6	0.3	*						0.1
20-24 years	24,945	51.8	34.5	10.6	2.4	0.5	0.1	*	*		*	*
25-29 years	23,323	37.5	38.5	16.4	5.5	1.5	0.4	0.1	*	*	*	*
30-34 years	12,732	22.4	37.8	23.8	9.7	3.6	1.3	0.7	0.3	0.1	0.1	*
35-39 years	3,132	14.4	24.6	24.1	15.8	9.7	5.2	2.3	1.7	1.0	1.2	*
40-44 years	503	12.1	13.1	19.9	15.5	12.7	8.9	6.0	3.4	3.2	5.2	
45 years & over	28		7.1	17.9	14.3	14.3	7.1	7.1	3.6	10.7	17.9	
Unknown	10											
WHITE - Total	56,736	46.5	33.4	13.4	4.3	1.5	0.5	0.2	0.1	*	*	*
Under 15 years	84	98.8	1.2									
15-19 years	7,147	83.4	14.7	1.7	0.1	*						0.1
20-24 years	17,754	56.0	33.7	8.4	1.6	0.3	*					*
25-29 years	18,379	40.6	38.9	15.0	4.1	1.0	0.2	0.1	*	*	*	*
30-34 years	10,501	23.8	38.7	23.8	9.0	3.0	1.0	0.4	0.1	*	*	*
35-39 years	2,465	15.3	25.5	25.4	15.9	10.0	4.1	1.8	1.0	0.6	0.4	*
40-44 years	384	12.5	13.8	22.1	16.1	12.8	8.9	6.8	2.9	1.8	2.3	
45 years & over	18		11.1	22.2	16.7	16.7		11.1		5.6	16.7	
Unknown	4											
NONWHITE - Total	20,163	42.4	31.2	15.3	6.3	2.3	1.1	0.5	0.3	0.2	0.3	*
Under 15 years	160	99.4	0.6									
15-19 years	4,835	75.8	19.8	3.9	0.4	0.1						*
20-24 years	7,191	41.6	36.5	16.0	4.5	1.1	0.2	*	*		*	*
25-29 years	4,944	25.9	36.7	21.7	10.5	3.4	1.2	0.4	0.1	*	*	*
30-34 years	2,231	16.0	33.4	24.0	13.2	6.4	3.2	1.8	0.9	0.7	0.4	
35-39 years	667	10.9	21.4	19.3	15.1	8.7	9.6	3.9	4.2	2.7	4.0	
40-44 years	119	10.9	10.9	12.6	13.4	12.6	9.2	3.4	5.0	7.6	14.3	
45 years & over	10			10.0	10.0	10.0	20.0		10.0	20.0	20.0	
Unknown	6											

*Less than 0.05

TABLE 9 - LIVE BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for the entire State and planning districts, on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
				Number			Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	73,968	54,140	19,828	76,899	56,736	20,163	14.6	13.7	18.2
District 1	1,261	1,236	25	1,531	1,503	28	15.5	15.5	17.2
Lee	9	9		359	358	1	13.9	14.0	6.6
Scott	2	2		285	282	3	11.5	11.4	16.7
Wise	951	939	12	820	799	21	18.9	18.9	20.7
Norton	299	286	13	67	64	3	14.5	14.8	10.8
District 2	1,586	1,576	10	2,250	2,222	28	16.5	16.5	13.2
Buchanan	255	255		608	607	1	16.6	16.6	6.9
Dickenson	3	3		335	332	3	16.9	16.9	22.6
Russell	210	207	3	470	467	3	15.6	15.7	9.1
Tazewell	1,118	1,111	7	837	816	21	16.7	16.8	13.9
District 3	1,712	1,681	31	2,123	2,069	54	12.0	12.0	10.7
Bland				69	69		11.0	11.4	0.0
Carroll	4	4		267	265	2	10.4	10.3	14.7
Grayson	2	2		166	161	5	10.3	10.4	8.9
Smyth	391	388	3	399	392	7	12.5	12.5	10.5
Washington	621	610	11	610	600	10	14.0	14.0	11.4
Wythe	299	289	10	315	305	10	12.6	12.7	10.4
Bristol				221	204	17	11.2	11.0	13.2
Galax	395	388	7	76	73	3	11.5	11.7	9.1
District 4	1,426	1,369	57	1,495	1,438	57	10.9	11.0	8.6
Floyd	13	13		132	130	2	11.8	12.0	5.0
Giles	111	108	3	212	209	3	12.2	12.3	7.5
Montgomery	489	471	18	598	576	22	13.5	13.7	10.6
Pulaski	120	115	5	444	423	21	13.0	13.1	10.7
Radford	693	662	31	109	100	9	12.8	12.6	14.3
District 5	3,762	3,209	553	3,024	2,510	514	12.3	11.6	17.7
Alleghany	344	319	25	166	159	7	12.5	12.3	18.4
Botetourt				276	260	16	12.2	12.1	14.0
Craig	1	1		47	47		11.7	11.8	0.0
Roanoke	3	3		757	722	35	11.1	10.9	18.1
Clifton Forge	143	129	14	63	50	13	12.6	12.0	16.0
Covington				114	102	12	12.6	13.1	9.7
Roanoke City	2,543	2,082	461	1,347	930	417	13.6	12.1	18.6
Salem	728	675	53	254	240	14	11.3	11.3	12.6
District 6	2,915	2,757	158	2,687	2,527	160	13.1	13.0	15.0
Augusta	2	2		689	663	26	13.4	13.5	12.1
Bath	38	34	4	91	82	9	16.1	16.0	16.2
Highland	1	1		56	55	1	19.5	19.3	55.6
Rockbridge	2	2		236	224	12	13.5	13.3	20.0
Rockingham	6	6		819	797	22	15.2	15.1	21.9
Buena Vista				79	73	6	11.8	11.4	21.7
Harrisonburg	1,340	1,297	43	182	167	15	14.3	13.9	22.2
Lexington	345	321	24	64	56	8	14.4	14.5	13.5
Staunton	498	462	36	268	233	35	12.7	12.5	14.1
Waynesboro	683	632	51	203	177	26	13.0	12.4	18.6
District 7	2,053	1,953	100	1,794	1,702	92	13.9	13.8	15.4
Clarke	3	3		133	115	18	14.7	14.5	16.9
Frederick	1	1		500	489	11	15.8	15.7	20.0
Page	3	3		258	251	7	13.5	13.5	12.5
Shenandoah	334	331	3	373	369	4	13.7	13.8	8.9
Warren	241	221	20	288	264	24	14.1	13.7	18.9
Winchester	1,471	1,394	77	242	214	28	11.3	11.0	13.5
District 8	13,215	11,079	2,136	15,532	13,036	2,496	14.4	14.0	17.2
Arlington	1,219	840	379	1,897	1,496	401	12.8	12.2	15.6
Fairfax	6,844	5,969	875	7,806	6,719	1,087	13.7	13.3	16.8
Loudoun	626	564	62	851	781	70	15.3	15.7	12.3
Prince William	647	556	91	2,643	2,340	303	19.0	18.9	20.0
Alexandria	2,776	2,149	627	1,456	895	561	14.1	12.0	19.7
Fairfax City	3	2	1	307	282	25	15.4	15.1	18.8
Falls Church	1	1		115	106	9	12.2	12.1	13.6
Manassas	1,098	997	101	347	309	38	24.0	24.0	23.9
Manassas Park	1	1		110	108	2	14.6	15.2	4.5
District 9	731	603	128	1,323	1,051	272	14.8	14.3	17.1
Culpeper	348	291	57	354	273	81	15.9	15.5	17.2
Fauquier	377	306	71	488	399	89	14.6	14.3	16.2
Madison	4	4		133	108	25	13.1	13.0	13.5
Orange	1	1		266	193	73	15.2	13.4	23.6
Rappahannock	1	1		82	78	4	13.7	14.7	5.8
District 10	2,437	1,808	629	1,918	1,494	424	13.7	13.1	16.1
Albemarle	1,307	772	535	704	608	96	15.4	15.1	17.1
Fluvanna	4	4		151	111	40	15.0	15.7	13.4
Greene	2	2		144	129	15	19.2	18.7	25.3
Louisa	4	3	1	259	169	90	14.6	14.2	15.4
Nelson	3	3		161	120	41	13.4	13.1	14.1
Charlottesville	1,117	1,024	93	499	357	142	15.4	13.5	23.3
District 11	2,705	1,978	727	2,565	1,933	632	13.4	12.5	16.9
Amherst	3	3		372	287	85	14.4	14.2	15.5
Appomattox	1		1	157	123	34	13.3	13.6	12.3
Bedford	4	3	1	449	384	65	13.4	13.0	16.7
Campbell	3	3		641	514	127	14.3	13.6	18.0
Bedford City	227	166	61	70	56	14	11.3	11.3	11.5
Lynchburg	2,467	1,803	664	876	569	307	14.0	12.0	20.0

(continued)

TABLE 9 - LIVE BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979 (continued)

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for the entire State and planning districts, on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
				Number			Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	73,968	54,140	19,828	76,899	56,736	20,163	14.6	13.7	18.2
District 12	2,743	1,801	942	3,080	2,054	1,026	13.0	11.5	17.6
Franklin	194	124	70	419	339	80	12.6	11.7	19.6
Henry	2		2	792	561	231	13.9	12.9	17.2
Patrick	147	132	15	174	161	13	10.3	10.3	9.6
Pittsylvania	5	4	1	838	511	327	12.9	11.3	16.6
Danville	1,413	853	560	635	356	279	14.2	11.4	20.7
Martinsville	982	688	294	222	126	96	12.4	10.3	16.7
District 13	1,085	532	553	1,169	547	622	14.1	11.7	17.4
Brunswick	11		11	239	89	150	15.2	13.3	16.6
Halifax	5		5	429	225	204	14.2	12.4	16.8
Mecklenburg	282	102	180	399	183	216	13.5	10.4	18.1
South Boston	787	430	357	102	50	52	14.3	11.1	19.7
District 14	441	191	250	1,145	555	590	13.8	11.1	17.9
Amelia				119	81	38	14.1	15.7	11.6
Buckingham	6	5	1	163	78	85	14.0	11.7	17.2
Charlotte	8		8	152	76	76	12.3	10.0	15.8
Cumberland	2	2		96	44	52	12.7	10.2	15.8
Lunenburg	3	2	1	161	79	82	13.2	10.7	17.0
Nottoway	8	3	5	207	96	111	14.0	10.7	19.1
Prince Edward	414	179	235	247	101	146	18.6	12.3	28.9
District 15	10,700	6,495	4,205	8,913	5,628	3,285	14.3	12.7	18.2
Charles City Co.				104	19	85	15.5	13.6	16.0
Chesterfield	7	7		2,030	1,789	241	15.4	15.3	16.7
Goochland	1		1	133	86	47	12.0	12.2	11.6
Hanover	7	5	2	620	506	114	12.3	11.6	16.9
Henrico	3,917	3,415	502	2,301	1,785	516	13.0	12.0	17.8
New Kent				114	84	30	13.7	13.9	13.2
Powhatan				144	123	21	12.8	14.7	7.3
Richmond City	6,768	3,068	3,700	3,467	1,236	2,231	17.0	12.7	21.0
District 16	1,429	1,161	268	1,764	1,405	359	15.3	15.1	16.4
Caroline				259	149	110	14.9	15.4	14.2
King George				176	125	51	17.3	16.1	21.2
Spotsylvania	3	3		557	472	85	17.3	17.4	16.7
Stafford	1	1		574	520	54	15.3	15.1	17.4
Fredericksburg	1,425	1,157	268	198	139	59	14.0	12.5	19.8
District 17	201	135	66	512	269	243	12.6	10.2	17.1
Lancaster	200	134	66	106	50	56	10.4	7.4	16.5
Northumberland				123	72	51	12.6	11.1	15.5
Richmond				102	52	50	14.9	11.2	22.8
Westmoreland	1	1		181	95	86	13.1	11.2	16.2
District 18	18	8	10	753	506	247	12.9	12.1	15.2
Essex	12	4	8	135	69	66	15.8	13.7	18.8
Gloucester	3	3		262	223	39	13.7	13.9	12.7
King and Queen	1		1	89	35	54	14.9	11.1	19.2
King William				117	75	42	13.0	13.1	12.8
Mathews				65	50	15	8.1	7.6	10.4
Middlesex	2	1	1	85	54	31	11.3	10.2	14.1
District 19	2,013	1,057	956	2,375	1,187	1,188	14.8	12.7	17.6
Dinwiddie	1		1	243	139	104	12.3	12.4	12.2
Greensville				183	55	128	17.2	12.0	21.2
Prince George				326	211	115	17.2	16.9	17.8
Surry	2		2	90	32	58	15.2	14.5	15.7
Sussex				158	45	113	14.4	10.5	16.9
Colonial Heights				168	162	6	10.0	9.8	17.3
Emporia	391	81	310	82	35	47	16.6	11.9	23.5
Hopewell	455	342	113	408	292	116	17.3	15.7	23.1
Petersburg	1,164	634	530	717	216	501	17.1	13.7	19.2
District 20	14,826	9,318	5,508	14,722	9,231	5,491	17.6	16.2	20.6
Isle of Wight	2	2		307	168	139	14.7	13.8	16.1
Southampton	1		1	218	101	117	11.8	10.6	13.1
Chesapeake	16	14	2	1,894	1,212	682	16.7	15.1	20.8
Franklin City	360	173	187	109	45	64	15.0	14.0	15.9
Norfolk	6,507	3,707	2,800	5,269	2,957	2,312	22.4	20.7	25.1
Portsmouth	5,760	3,894	1,866	2,021	909	1,112	19.3	16.1	22.9
Suffolk	693	247	446	691	294	397	14.6	12.0	17.5
Virginia Beach	1,487	1,281	206	4,213	3,545	668	17.1	16.7	20.1
District 21	6,104	3,957	2,147	5,537	3,566	1,971	16.1	15.1	18.2
James City Co.	4	2	2	280	182	98	13.6	12.5	16.1
York	1	1		289	220	69	8.4	7.9	10.4
Hampton	1,649	892	757	2,059	1,305	754	17.3	17.1	17.5
Newport News	3,924	2,656	1,268	2,682	1,676	1,006	19.1	18.0	21.2
Poquoson				102	102		11.4	11.5	0.0
Williamsburg	526	406	120	125	81	44	22.9	17.0	64.0
District 22	605	236	369	687	303	384	14.8	11.1	20.1
Accomack	17	3	14	440	208	232	14.0	10.5	20.1
Northampton	588	233	355	247	95	152	16.4	12.7	20.1

TABLE 10 - LIVE BIRTHS BY RACE AND PLACE OF DELIVERY BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	ALL LIVE BIRTHS			PLACE OF DELIVERY								
				TOTAL			WHITE			NONWHITE		
					Non-Hosp. Birth			Non-Hosp. Birth			Non-Hosp. Birth	
	Total	White	Nonwhite	Hospital Birth	Physician	Midwife and Other	Hospital Birth	Physician	Midwife and Other	Hospital Birth	Physician	Midwife and Other
STATE OF VIRGINIA	76,899	56,736	20,163	76,337	248	314	56,318	161	257	20,019	87	57
District 1	1,531	1,503	28	1,517	4	10	1,489	4	10	28		
Lee	359	358	1	349	2	8	348	2	8	1		
Scott	285	282	3	283		2	280		2	3		
Wise	820	799	21	819	1		798	1		21		
Norton	67	64	3	66	1		63	1		3		
District 2	2,250	2,222	28	2,243	6	1	2,215	6	1	28		
Buchanan	608	607	1	607		1	606		1	1		
Dickenson	335	332	3	332	3		329	3		3		
Russell	470	467	3	468	2		465	2		3		
Tazewell	837	816	21	836	1		815	1		21		
District 3	2,123	2,069	54	2,106	13	4	2,052	13	4	54		
Bland	69	69		69			69					
Carroll	267	265	2	263	4		261	4		2		
Grayson	166	161	5	163	2	1	158	2	1	5		
Smyth	399	392	7	399			392			7		
Washington	610	600	10	603	4	3	593	4	3	10		
Wythe	315	305	10	312	3		302	3		10		
Bristol	221	204	17	221			204			17		
Galax	76	73	3	76			73			3		
District 4	1,495	1,438	57	1,472	6	17	1,416	5	17	56	1	
Floyd	132	130	2	118	2	12	116	2	12	2		
Giles	212	209	3	209	1	2	206	1	2	3		
Montgomery	598	576	22	595	1	2	574		2	21	1	
Pulaski	444	423	21	442	2		421	2		21		
Radford	109	100	9	108		1	99		1	9		
District 5	3,024	2,510	514	3,013	2	9	2,502	1	7	511	1	2
Alleghany	166	159	7	166			159			7		
Botetourt	276	260	16	275	1		259	1		16		
Craig	47	47		46		1	46		1			
Roanoke	757	722	35	753		4	719		3	34		1
Clifton Forge	63	50	13	63			50			13		
Covington	114	102	12	114			102			12		
Roanoke City	1,347	930	417	1,343	1	3	928		2	415	1	1
Salem	254	240	14	253		1	239		1	14		
District 6	2,687	2,527	160	2,672	3	12	2,512	3	12	160		
Augusta	689	663	26	687		2	661		2	26		
Bath	91	82	9	91			82			9		
Highland	56	55	1	54	1	1	53	1	1	1		
Rockbridge	236	224	12	234	1	1	222	1	1	12		
Rockingham	819	797	22	813		6	791		6	22		
Buena Vista	79	73	6	79			73			6		
Harrisonburg	182	167	15	182			167			15		
Lexington	64	56	8	64			56			8		
Staunton	268	233	35	266		2	231		2	35		
Waynesboro	203	177	26	202	1		176	1		26		
District 7	1,794	1,702	92	1,779	5	10	1,687	5	10	92		
Clarke	133	115	18	130	1	2	112	1	2	18		
Frederick	500	489	11	499		1	488		1	11		
Page	258	251	7	256	1	1	249	1	1	7		
Shenandoah	373	369	4	372		1	368		1	4		
Warren	288	264	24	282	1	5	258	1	5	24		
Winchester	242	214	28	240	2		212	2		28		
District 8	15,532	13,036	2,496	15,413	33	86	12,925	27	84	2,488	6	2
Arlington	1,897	1,496	401	1,881	5	11	1,480	5	11	401		
Fairfax	7,806	6,719	1,087	7,744	16	46	6,663	12	44	1,081	4	2
Loudoun	851	781	70	843	4	4	773	4	4	70		
Prince William	2,643	2,340	303	2,631	3	9	2,328	3	9	303		
Alexandria	1,456	895	561	1,442	2	12	882	1	12	560	1	
Fairfax City	307	282	25	304	1	2	280		2	24	1	
Falls Church	115	106	9	114	1		105	1		9		
Manassas	347	309	38	345	1	1	307	1	1	38		
Manassas Park	110	108	2	109		1	107		1	2		
District 9	1,323	1,051	272	1,305	10	8	1,040	6	5	265	4	3
Culpeper	354	273	81	350	2	2	271	1	1	79	1	1
Fauquier	488	399	89	481	5	2	396	3		85	2	2
Madison	133	108	25	129	1	3	104	1	3	25		
Orange	266	193	73	265	1		192	1		73		
Rappahannock	82	78	4	80	1	1	77		1	3	1	
District 10	1,918	1,494	424	1,889	4	25	1,467	2	25	422	2	
Albemarle	704	608	96	694	2	8	598	2	8	96		
Fluvanna	151	111	40	147		4	107		4	40		
Greene	144	129	15	142		2	127		2	15		
Louisa	259	169	90	253	2	4	165		4	88	2	
Nelson	161	120	41	158		3	117		3	41		
Charlottesville	499	357	142	495		4	353		4	142		
District 11	2,565	1,933	632	2,552	6	7	1,923	3	7	629	3	
Amherst	372	287	85	369		3	284		3	85		
Appomattox	157	123	34	157			123			34		
Bedford	449	384	65	445	3	1	381	2	1	64	1	
Campbell	641	514	127	637	1	3	511		3	126	1	
Bedford City	70	56	14	70			56			14		
Lynchburg	876	569	307	874	2		568	1		306	1	

(continued)

TABLE 10 - LIVE BIRTHS BY RACE AND PLACE OF DELIVERY BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	ALL LIVE BIRTHS			PLACE OF DELIVERY								
				TOTAL			WHITE			NONWHITE		
					Non-Hosp. Birth			Non-Hosp. Birth			Non-Hosp. Birth	
	Total	White	Nonwhite	Hospital Birth	Physician	Midwife and Other	Hospital Birth	Physician	Midwife and Other	Hospital Birth	Physician	Midwife and Other
STATE OF VIRGINIA	76,899	56,736	20,163	76,337	248	314	56,318	161	257	20,019	87	57
District 12	3,080	2,054	1,026	3,072	2	6	2,050		4	1,022	2	2
Franklin	419	339	80	419			339			80		
Henry	792	561	231	790	2		561			229	2	
Patrick	174	161	13	174			161			13		
Pittsylvania	838	511	327	833		5	507		4	326		1
Danville	635	356	279	634		1	356			278		1
Martinsville	222	126	96	222			126			96		
District 13	1,169	547	622	1,150	9	10	547			603	9	10
Brunswick	239	89	150	228	1	10	89			139	1	10
Halifax	429	225	204	425	4		225			200	4	
Mecklenburg	399	183	216	396	3		183			213	3	
South Boston	102	50	52	101	1		50			51	1	
District 14	1,145	555	590	1,113	12	20	541	5	9	572	7	11
Amelia	119	81	38	118	1		81			37	1	
Buckingham	163	78	85	158	1	4	74		4	84	1	
Charlotte	152	76	76	142	1	9	75		1	67	1	8
Cumberland	96	44	52	94	1	1	42	1	1	52		
Lunenburg	161	79	82	157	3	1	78	1		79	2	1
Nottoway	207	96	111	202	5		93	3		109	2	
Prince Edward	247	101	146	242		5	98		3	144		2
District 15	8,913	5,628	3,285	8,869	26	18	5,598	15	15	3,271	11	3
Charles City Co.	104	19	85	104			19			85		
Chesterfield	2,030	1,789	241	2,020	6	4	1,780	6	3	240		1
Goochland	133	86	47	133			86			47		
Hanover	620	506	114	612	5	3	500	4	2	112	1	1
Henrico	2,301	1,785	516	2,291	4	6	1,778	2	5	513	2	1
New Kent	114	84	30	114			84			30		
Powhatan	144	123	21	144			123			21		
Richmond City	3,467	1,236	2,231	3,451	11	5	1,228	3	5	2,223	8	
District 16	1,764	1,405	359	1,755	5	4	1,398	3	4	357	2	
Caroline	259	149	110	258	1		149			109	1	
King George	176	125	51	175	1		124	1		51		
Spotsylvania	557	472	85	553	3	1	469	2	1	84	1	
Stafford	574	520	54	572		2	518		2	54		
Fredericksburg	198	139	59	197		1	138		1	59		
District 17	512	269	243	510	2		268	1		242	1	
Lancaster	106	50	56	106			50			56		
Northumberland	123	72	51	123			72			51		
Richmond	102	52	50	101	1		52			49	1	
Westmoreland	181	95	86	180	1		94	1		86		
District 18	753	506	247	747	4	2	502	2	2	245	2	
Essex	135	69	66	133		2	67		2	66		
Gloucester	262	223	39	261	1		222	1		39		
King and Queen	89	35	54	88	1		35			53	1	
King William	117	75	42	117			75			42		
Mathews	65	50	15	65			50			15		
Middlesex	85	54	31	83	2		53	1		30	1	
District 19	2,375	1,187	1,188	2,367	6	2	1,185	2		1,182	4	2
Dinwiddie	243	139	104	240	2	1	138	1		102	1	1
Greensville	183	55	128	183			55			128		
Prince George	326	211	115	326			211			115		
Surry	90	32	58	88	2		32			56	2	
Sussex	158	45	113	157	1		45			112	1	
Colonial Heights	168	162	6	168			162			6		
Emporia	82	35	47	82			35			47		
Hopewell	408	292	116	407	1		291	1		116		
Petersburg	717	216	501	716		1	216			500		1
District 20	14,722	9,231	5,491	14,612	76	34	9,144	54	33	5,468	22	1
Isle of Wight	307	168	139	305	2		166	2		139		
Southampton	218	101	117	217	1		101			116	1	
Chesapeake	1,894	1,212	682	1,876	14	4	1,198	10	4	678	4	
Franklin City	109	45	64	109			45			64		
Norfolk	5,269	2,957	2,312	5,236	21	12	2,933	12	12	2,303	9	
Portsmouth	2,021	909	1,112	2,008	11	2	903	4	2	1,105	7	
Suffolk	691	294	397	690	1		293	1		397		
Virginia Beach	4,213	3,545	668	4,171	26	16	3,505	25	15	666	1	1
District 21	5,537	3,566	1,971	5,520	11	6	3,557	4	5	1,963	7	1
James City Co.	280	182	98	279	1		181	1		98		
York	289	220	69	288	1		220			68	1	
Hampton	2,059	1,305	754	2,051	5	3	1,301	2	2	750	3	1
Newport News	2,682	1,676	1,006	2,675	4	3	1,672	1	3	1,003	3	
Poquoson	102	102		102			102					
Williamsburg	125	81	44	125			81			44		
District 22	687	303	384	661	3	23	300		3	361	3	20
Accomack	440	208	232	423	1	16	205		3	218	1	13
Northampton	247	95	152	238	2	7	95			143	2	7

TABLE 11 - ILLEGITIMATE LIVE BIRTHS, IMMATURE BIRTHS, AND CONGENITAL ANOMALIES WITH PERCENT OF TOTAL BIRTHS BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Illegitimate Live Births						Immature Births						Congenital Anomalies	
	Number			Percent			Number			Percent				
	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	Percent
STATE OF VIRGINIA	14,246	4,417	9,829	18.5	7.8	48.7	5,814	3,461	2,353	7.6	6.1	11.7	661	0.9
District 1	127	117	10	8.3	7.8	35.7	131	125	6	8.6	8.3	21.4	18	1.2
Lee	33	33		9.2	9.2	0.0	34	34		9.5	9.5	0.0	7	1.9
Scott	20	18	2	7.0	6.4	66.7	21	20	1	7.4	7.1	33.3	4	1.4
Wise	65	59	6	7.9	7.4	28.6	70	65	5	8.5	8.1	23.8	5	0.6
Norton	9	7	2	13.4	10.9	66.7	6	6		9.0	9.4	0.0	2	3.0
District 2	182	173	9	8.1	7.8	32.1	199	194	5	8.8	8.7	17.9	27	1.2
Buchanan	50	50		8.2	8.2	0.0	43	43		7.1	7.1	0.0	6	1.0
Dickenson	29	29		8.7	8.7	0.0	26	26		7.8	7.8	0.0	6	1.8
Russell	41	40	1	8.7	8.6	33.3	53	51	2	11.3	10.9	66.7	8	1.7
Tazewell	62	54	8	7.4	6.6	38.1	77	74	3	9.2	9.1	14.3	7	0.8
District 3	203	177	26	9.6	8.6	48.1	142	135	7	6.7	6.5	13.0	29	1.4
Bland	2	2		2.9	2.9		5	5		7.2	7.2			0.0
Carroll	16	16		6.0	6.0	0.0	12	12		4.5	4.5	0.0	3	1.1
Grayson	15	11	4	9.0	6.8	80.0	14	14		8.4	8.7	0.0	2	1.2
Smyth	33	30	3	8.3	7.7	42.9	26	24	2	6.5	6.1	28.6	7	1.8
Washington	43	39	4	7.0	6.5	40.0	43	41	2	7.0	6.8	20.0	10	1.6
Wythe	46	40	6	14.6	13.1	60.0	17	17		5.4	5.6	0.0	6	1.9
Bristol	39	31	8	17.6	15.2	47.1	20	17	3	9.0	8.3	17.6	1	0.5
Galax	9	8	1	11.8	11.0	33.3	5	5		6.6	6.8	0.0		0.0
District 4	157	132	25	10.5	9.2	43.9	101	91	10	6.8	6.3	17.5	13	0.9
Floyd	11	10	1	8.3	7.7	50.0	5	5		3.8	3.8	0.0	1	0.8
Giles	13	13		6.1	6.2	0.0	18	16	2	8.5	7.7	66.7	5	2.4
Montgomery	55	47	8	9.2	8.2	36.4	35	32	3	5.9	5.6	13.6	5	0.8
Pulaski	62	49	13	14.0	11.6	61.9	36	32	4	8.1	7.6	19.0	2	0.5
Radford	16	13	3	14.7	13.0	33.3	7	6	1	6.4	6.0	11.1		0.0
District 5	552	269	283	18.3	10.7	55.1	231	171	60	7.6	6.8	11.7	30	1.0
Alleghany	15	12	3	9.0	7.5	42.9	12	11	1	7.2	6.9	14.3	1	0.6
Botetourt	25	18	7	9.1	6.9	43.8	26	24	2	9.4	9.2	12.5	3	1.1
Craig	4	4		8.5	8.5		1	1		2.1	2.1			0.0
Roanoke	53	41	12	7.0	5.7	34.3	46	37	9	6.1	5.1	25.7	6	0.8
Clifton Forge	7	4	3	11.1	8.0	23.1	4	4		6.3	8.0	0.0	1	1.6
Covington	23	15	8	20.2	14.7	66.7	7	7		6.1	6.9	0.0	1	0.9
Roanoke City	407	159	248	30.2	17.1	59.5	113	68	45	8.4	7.3	10.8	18	1.3
Salem	18	16	2	7.1	6.7	14.3	22	19	3	8.7	7.9	21.4		0.0
District 6	350	273	77	13.0	10.8	48.1	179	161	18	6.7	6.4	11.3	33	1.2
Augusta	77	66	11	11.2	10.0	42.3	47	46	1	6.8	6.9	3.8	14	2.0
Bath	11	6	5	12.1	7.3	55.6	6	5	1	6.6	6.1	11.1	1	1.1
Highland	1	1		1.8	1.8	0.0	8	8		14.3	14.5	0.0		0.0
Rockbridge	26	23	3	11.0	10.3	25.0	18	15	3	7.6	6.7	25.0	1	0.4
Rockingham	89	78	11	10.9	9.8	50.0	45	43	2	5.5	5.4	9.1	5	0.6
Buena Vista	6	4	2	7.6	5.5	33.3	5	5		6.3	6.8	0.0		0.0
Harrisonburg	30	23	7	16.5	13.8	46.7	11	10	1	6.0	6.0	6.7	1	0.5
Lexington	9	5	4	14.1	8.9	50.0	2	1	1	3.1	1.8	12.5		0.0
Staunton	57	36	21	21.3	15.5	60.0	20	13	7	7.5	5.6	20.0	7	2.6
Waynesboro	44	31	13	21.7	17.5	50.0	17	15	2	8.4	8.5	7.7	4	2.0
District 7	267	215	52	14.9	12.6	56.5	124	111	13	6.9	6.5	14.1	12	0.7
Clarke	17	8	9	12.8	7.0	50.0	6	3	3	4.5	2.6	16.7	2	1.5
Frederick	57	51	6	11.4	10.4	54.5	28	27	1	5.6	5.5	9.1	4	0.8
Page	35	32	3	13.6	12.7	42.9	17	16	1	6.6	6.4	14.3	1	0.4
Shenandoah	42	40	2	11.3	10.8	50.0	30	29	1	8.0	7.9	25.0	2	0.5
Warren	71	55	16	24.7	20.8	66.7	27	25	2	9.4	9.5	8.3	3	1.0
Winchester	45	29	16	18.6	13.6	57.1	16	11	5	6.6	5.1	17.9		0.0
District 8	1,712	871	841	11.0	6.7	33.7	911	680	231	5.9	5.2	9.3	110	0.7
Arlington	250	116	134	13.2	7.8	33.4	121	85	36	6.4	5.7	9.0	10	0.5
Fairfax	638	372	266	8.2	5.5	24.5	454	362	92	5.8	5.4	8.5	46	0.6
Loudoun	97	61	36	11.4	7.8	51.4	49	42	7	5.8	5.4	10.0	9	1.1
Prince William	251	174	77	9.5	7.4	25.4	135	116	19	5.1	5.0	6.3	28	1.1
Alexandria	390	89	301	26.8	9.9	53.7	112	44	68	7.7	4.9	12.1	8	0.5
Fairfax City	18	17	1	5.9	6.0	4.0	13	10	3	4.2	3.5	12.0	4	1.3
Falls Church	8	4	4	7.0	3.8	44.4	7	6	1	6.1	5.7	11.1	1	0.9
Manassas	44	24	20	12.7	7.8	52.6	13	8	5	3.7	2.6	13.2	2	0.6
Manassas Park	16	14	2	14.5	13.0	100.0	7	7		6.4	6.5	0.0	2	1.8
District 9	244	92	152	18.4	8.8	55.9	81	51	30	6.1	4.9	11.0	10	0.8
Culpeper	70	22	48	19.8	8.1	59.3	16	8	8	4.5	2.9	9.9	3	0.8
Fauquier	84	41	43	17.2	10.3	48.3	32	21	11	6.6	5.3	12.4	2	0.4
Madison	20	8	12	15.0	7.4	48.0	8	6	2	6.0	5.6	8.0	1	0.8
Orange	62	16	46	23.3	8.3	63.0	22	13	9	8.3	6.7	12.3	3	1.1
Rappahannock	8	5	3	9.8	6.4	75.0	3	3		3.7	3.8	0.0	1	1.2
District 10	337	116	221	17.6	7.8	52.1	128	84	44	6.7	5.6	10.4	18	0.9
Albemarle	93	54	39	13.2	8.9	40.6	52	43	9	7.4	7.1	9.4	6	0.9
Fluvanna	27	9	18	17.9	8.1	45.0	10	4	6	6.6	3.6	15.0		0.0
Greene	20	9	11	13.9	7.0	73.3	5	4	1	3.5	3.1	6.7		0.0
Louisa	57	7	50	22.0	4.1	55.6	19	8	11	7.3	4.7	12.2	5	1.9
Nelson	25	6	19	15.5	5.0	46.3	7	4	3	4.3	3.3	7.3		0.0
Charlottesville	115	31	84	23.0	8.7	59.2	35	21	14	7.0	5.9	9.9	7	1.4
District 11	417	136	281	16.3	7.0	44.5	214	117	97	8.3	6.1	15.3	28	1.1
Amherst	49	14	35	13.2	4.9	41.2	25	16	9	6.7	5.6	10.6	3	0.8
Appomattox	24	13	11	15.3	10.6	32.4	10	5	5	6.4	4.1	14.7	3	1.9
Bedford	49	18	31	10.9	4.7	47.7	38	25	13	8.5	6.5	20.0	6	1.3
Campbell	86	31	55	13.4	6.0	43.3	58	37	21	9.0	7.2	16.5	5	0.8
Bedford City	18	7	11	25.7	12.5	78.6	6	4	2	8.6	7.1	14.3		0.0
Lynchburg	191	53	138	21.8	9.3	45.0	77	30	47	8.8	5.3	15.3	11	1.3

(continued)

TABLE 11 - ILLEGITIMATE LIVE BIRTHS, IMMATURE BIRTHS, AND CONGENITAL ANOMALIES WITH PERCENT OF TOTAL BIRTHS BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Illegitimate Live Births						Immature Births						Congenital Anomalies	
	Number			Percent			Number			Percent				
	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	Percent
STATE OF VIRGINIA	14,246	4,417	9,829	18.5	7.8	48.7	5,814	3,461	2,353	7.6	6.1	11.7	661	0.9
District 12	608	136	472	19.7	6.6	46.0	269	142	127	8.7	6.9	12.4	26	0.8
Franklin	52	22	30	12.4	6.5	37.5	31	19	12	7.4	5.6	15.0	5	1.2
Henry	150	46	104	18.9	8.2	45.0	69	42	27	8.7	7.5	11.7	8	1.0
Patrick	10	9	1	5.7	5.6	7.7	9	8	1	5.2	5.0	7.7	1	0.6
Pittsylvania	154	23	131	18.4	4.5	40.1	81	34	47	9.7	6.7	14.4	4	0.5
Danville	179	29	150	28.2	8.1	53.8	58	30	28	9.1	8.4	10.0	6	0.9
Martinsville	63	7	56	28.4	5.6	58.3	21	9	12	9.5	7.1	12.5	2	0.9
District 13	280	25	255	24.0	4.6	41.0	114	30	84	9.8	5.5	13.5	12	1.0
Brunswick	67	3	64	28.0	3.4	42.7	25	6	19	10.5	6.7	12.7	1	0.4
Halifax	85	10	75	19.8	4.4	36.8	41	15	26	9.6	6.7	12.7	4	0.9
Mecklenburg	102	9	93	25.6	4.9	43.1	42	7	35	10.5	3.8	16.2	7	1.8
South Boston	26	3	23	25.5	6.0	44.2	6	2	4	5.9	4.0	7.7		0.0
District 14	295	30	265	25.8	5.4	44.9	98	35	63	8.6	6.3	10.7	12	1.0
Amelia	19	7	12	16.0	8.6	31.6	7	4	3	5.9	4.9	7.9		0.0
Buckingham	59	8	51	36.2	10.3	60.0	22	5	17	13.5	6.4	20.0	1	0.6
Charlotte	41	2	39	27.0	2.6	51.3	12	5	7	7.9	6.6	9.2	3	2.0
Cumberland	29	1	28	30.2	2.3	53.8	8	1	7	8.3	2.3	13.5		0.0
Lunenburg	32	2	30	19.9	2.5	36.6	18	6	12	11.2	7.6	14.6	1	0.6
Nottoway	55	6	49	26.6	6.3	44.1	16	8	8	7.7	8.3	7.2	4	1.9
Prince Edward	60	4	56	24.3	4.0	38.4	15	6	9	6.1	5.9	6.2	3	1.2
District 15	2,086	339	1,747	23.4	6.0	53.2	705	293	412	7.9	5.2	12.5	64	0.7
Charles City Co.	46	3	43	44.2	15.8	50.6	9	2	7	8.7	10.5	8.2	2	1.9
Chesterfield	155	84	71	7.6	4.7	29.5	121	93	28	6.0	5.2	11.6	11	0.5
Goochland	23	3	20	17.3	3.5	42.6	11	4	7	8.3	4.7	14.9		0.0
Hanover	66	14	52	10.6	2.8	45.6	36	25	11	5.8	4.9	9.6	9	1.5
Henrico	232	95	137	10.1	5.3	26.6	148	95	53	6.4	5.3	10.3	20	0.9
New Kent	12	3	9	10.5	3.6	30.0	8	3	5	7.0	3.6	16.7		0.0
Powhatan	9	1	8	6.3	0.8	38.1	9	7	2	6.3	5.7	9.5	1	0.7
Richmond City	1,543	136	1,407	44.5	11.0	63.1	363	64	299	10.5	5.2	13.4	21	0.6
District 16	261	95	166	14.8	6.8	46.2	100	69	31	5.7	4.9	8.6	9	0.5
Caroline	54	9	45	20.8	6.0	40.9	14	7	7	5.4	4.7	6.4	2	0.8
King George	38	11	27	21.6	8.8	52.9	15	8	7	8.5	6.4	13.7		0.0
Spotsylvania	59	22	37	10.6	4.7	43.5	29	22	7	5.2	4.7	8.2	3	0.5
Stafford	61	35	26	10.6	6.7	48.1	24	20	4	4.2	3.8	7.4	4	0.7
Fredericksburg	49	18	31	24.7	12.9	52.5	18	12	6	9.1	8.6	10.2		0.0
District 17	175	15	160	34.2	5.6	65.3	44	12	32	8.6	4.5	13.2	2	0.4
Lancaster	39	2	37	36.8	4.0	66.1	7		7	6.6	0.0	12.5	1	0.9
Northumberland	36	5	31	29.3	6.9	60.8	12	5	7	9.8	6.9	13.7		0.0
Richmond	32		32	31.4	0.0	64.0	10	5	5	9.8	9.6	10.0		0.0
Westmoreland	68	8	60	37.6	8.4	69.8	15	2	13	8.3	2.1	15.1	1	0.6
District 18	143	20	123	19.0	4.0	49.8	50	22	28	6.6	4.3	11.3	6	0.8
Essex	39	3	36	28.9	4.3	54.5	8	2	6	5.9	2.9	9.1	1	0.7
Gloucester	27	7	20	10.3	3.1	51.3	18	14	4	6.9	6.3	10.3	3	1.1
King and Queen	33	4	29	37.1	11.4	53.7	8		8	9.0	0.0	14.8		0.0
King William	19	2	17	16.2	2.7	40.5	3	1	2	2.6	1.3	4.8		0.0
Mathews	10	2	8	15.4	4.0	53.3	5	3	2	7.7	6.0	13.3		0.0
Middlesex	15	2	13	17.6	3.7	41.9	8	2	6	9.4	3.7	19.4	2	2.4
District 19	703	89	614	29.6	7.5	51.7	207	83	124	8.7	7.0	10.4	19	0.8
Dinwiddie	53	7	46	21.8	5.0	44.2	15	8	7	6.2	5.8	6.7	1	0.4
Greensville	75	4	71	40.0	7.3	55.5	22	3	19	12.0	5.5	14.8	4	2.2
Prince George	38	6	32	11.7	2.8	27.8	22	10	12	6.7	4.7	10.4	3	0.9
Surry	30	4	26	33.3	12.5	44.8	9	2	7	10.0	6.3	12.1	1	1.1
Sussex	63	1	62	39.9	2.2	54.9	11	1	10	7.0	2.2	8.8	1	0.6
Colonial Heights	5	5		3.0	3.1	0.0	18	18		10.7	11.1	0.0		0.0
Emporia	34	2	32	41.5	5.7	68.1	9	2	7	11.0	5.7	14.9		0.0
Hopewell	95	29	56	20.8	9.9	48.3	31	21	10	7.6	7.2	8.6	6	1.5
Petersburg	320	31	289	44.6	14.4	57.7	70	18	52	9.8	8.3	10.4	3	0.4
District 20	3,648	820	2,828	24.8	8.9	51.5	1,290	619	671	8.8	6.7	12.2	119	0.8
Isle of Wight	98	12	86	31.9	7.1	61.9	30	15	15	9.8	8.9	10.8	2	0.7
Southampton	59	2	57	27.1	2.0	48.7	13	1	12	6.0	1.0	10.3	1	0.5
Chesapeake	439	117	322	23.2	9.7	47.2	166	79	87	8.8	6.5	12.8	9	0.5
Franklin City	38	2	36	34.9	4.4	56.3	11	5	6	10.1	11.1	9.4		0.0
Norfolk	1,552	319	1,233	29.5	10.8	53.3	511	227	284	9.7	7.7	12.3	43	0.8
Portsmouth	734	86	648	36.3	9.5	58.3	203	65	138	10.0	7.2	12.4	24	1.2
Suffolk	253	15	238	36.6	5.1	59.9	71	17	54	10.3	5.8	13.6	15	2.2
Virginia Beach	475	267	208	11.3	7.5	31.1	285	210	75	6.8	5.9	11.2	25	0.6
District 21	1,216	254	962	22.0	7.1	48.8	433	216	217	7.8	6.1	11.0	49	0.9
James City Co.	72	12	60	25.7	6.6	61.2	28	13	15	10.0	7.1	15.3	4	1.4
York	43	7	36	14.9	3.2	52.2	17	9	8	5.9	4.1	11.6	2	0.7
Hampton	427	105	322	20.7	8.0	42.7	145	73	72	7.0	5.6	9.5	13	0.6
Newport News	642	124	518	23.9	7.4	51.5	225	108	117	8.4	6.4	11.6	27	1.0
Poquoson	5	5		4.9	4.9		9	9		8.8	8.8		3	2.9
Williamsburg	27	1	26	21.6	1.2	59.1	9	4	5	7.2	4.9	11.4		0.0
District 22	283	23	260	41.2	7.6	67.7	63	20	43	9.2	6.6	11.2	15	2.2
Accomack	174	18	156	39.5	8.7	67.2	38	16	22	8.6	7.7	9.5	11	2.5
Northampton	109	5	104	44.1	5.3	68.4	25	4	21	10.1	4.2	13.8	4	1.6

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	119	10	6
District 1	Total	1,531	3	344	587	346	173	55	22	1	
	White	1,503	3	338	580	334	171	54	22	1	
	Nonwhite	28		6	7	12	2	1			
Lee	Total	359	1	73	134	86	39	23	3		
	White	358	1	73	134	85	39	23	3		
	Nonwhite	1				1					
Scott	Total	285		69	101	57	39	12	7		
	White	282		69	101	55	38	12	7		
	Nonwhite	3				2	1				
Wise	Total	820	2	183	327	187	89	19	12	1	
	White	799	2	178	321	179	88	18	12	1	
	Nonwhite	21		5	6	8	1	1			
Norton	Total	67		19	25	16	6	1			
	White	64		18	24	15	6	1			
	Nonwhite	3		1	1	1					
District 2	Total	2,250	6	516	879	547	216	65	18	3	
	White	2,222	5	512	872	534	215	63	18	3	
	Nonwhite	28	1	4	7	13	1	2			
Buchanan	Total	608	1	170	220	133	55	22	6	1	
	White	607	1	170	220	132	55	22	6	1	
	Nonwhite	1				1					
Dickenson	Total	335		84	128	77	36	7	3		
	White	332		84	127	75	36	7	3		
	Nonwhite	3			1	2					
Russell	Total	470	4	94	191	111	54	11	4	1	
	White	467	4	93	191	109	54	11	4	1	
	Nonwhite	3		1		2					
Tazewell	Total	837	1	168	340	226	71	25	5	1	
	White	816		165	334	218	70	23	5	1	
	Nonwhite	21	1	3	6	8	1	2			
District 3	Total	2,123	5	424	729	608	262	78	17		
	White	2,069	5	409	716	591	254	77	17		
	Nonwhite	54		15	13	17	8	1			
Bland	Total	69		10	24	23	10	2			
	White	69		10	24	23	10	2			
	Nonwhite										
Carroll	Total	267	1	58	89	78	26	11	4		
	White	265	1	58	89	76	26	11	4		
	Nonwhite	2				2					
Grayson	Total	166	1	37	59	38	25	4	2		
	White	161	1	35	57	38	24	4	2		
	Nonwhite	5		2	2		1				
Smyth	Total	399		70	147	105	58	16	3		
	White	392		69	146	103	56	15	3		
	Nonwhite	7		1	1	2	2	1			
Washington	Total	610	1	114	206	185	77	24	3		
	White	600	1	110	202	184	76	24	3		
	Nonwhite	10		4	4	1	1				
Wythe	Total	315	2	67	109	94	30	9	4		
	White	305	2	65	108	89	28	9	4		
	Nonwhite	10		2	1	5	2				
Bristol	Total	221		48	72	64	25	11	1		
	White	204		43	68	58	23	11	1		
	Nonwhite	17		5	4	6	2				
Galax	Total	76		20	23	21	11	1			
	White	73		19	22	20	11	1			
	Nonwhite	3		1	1	1					
District 4	Total	1,495	4	262	508	454	205	56	6		
	White	1,438	4	245	482	446	202	53	6		
	Nonwhite	57		17	26	8	3	3			
Floyd	Total	132		20	44	34	27	7			
	White	130		20	43	34	27	6			
	Nonwhite	2			1			1			
Giles	Total	212	2	40	78	51	29	11	1		
	White	209	2	39	76	51	29	11	1		
	Nonwhite	3		1	2						
Montgomery	Total	598	1	97	199	194	78	25	4		
	White	576	1	92	188	191	77	23	4		
	Nonwhite	22		5	11	3	1	2			
Pulaski	Total	444	1	84	153	143	51	11	1		
	White	423	1	74	144	141	51	11	1		
	Nonwhite	21		10	9	2					
Radford	Total	109		21	34	32	20	2			
	White	100		20	31	29	18	2			
	Nonwhite	9		1	3	3	2				

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	119	10	6
District 5	Total	3,024	12	474	938	980	489	112	18	1	
	White	2,510	5	342	771	844	425	105	17	1	
	Nonwhite	514	7	132	167	136	64	7	1		
Alleghany	Total	166	1	26	54	47	29	8	1		
	White	159		26	53	46	26	7	1		
	Nonwhite	7	1		1	1	3	1			
Botetourt	Total	276		43	77	90	46	17	3		
	White	260		39	74	85	44	15	3		
	Nonwhite	16		4	3	5	2	2			
Craig	Total	47		8	12	16	9		2		
	White	47		8	12	16	9		2		
	Nonwhite										
Roanoke	Total	757	2	65	185	299	156	43	6	1	
	White	722	2	59	173	289	149	43	6	1	
	Nonwhite	35		6	12	10	7				
Clifton Forge	Total	63		5	22	24	10	2			
	White	50		4	19	18	7	2			
	Nonwhite	13		1	3	6	3				
Covington	Total	114		25	43	33	10	3			
	White	102		20	41	30	9	2			
	Nonwhite	12		5	2	3	1	1			
Roanoke City	Total	1,347	9	270	458	386	190	31	3		
	White	930	3	155	319	280	143	28	2		
	Nonwhite	417	6	115	139	106	47	3	1		
Salem	Total	254		32	87	85	39	8	3		
	White	240		31	80	80	38	8	3		
	Nonwhite	14		1	7	5	1				
District 6	Total	2,687	5	408	857	860	447	89	18	2	1
	White	2,527	4	372	801	812	432	85	18	2	1
	Nonwhite	160	1	36	56	48	15	4			
Augusta	Total	689	1	105	224	220	106	25	6	2	
	White	663	1	101	215	210	103	25	6	2	
	Nonwhite	26		4	9	10	3				
Bath	Total	91		17	26	24	18	2	4		
	White	82		15	24	21	17	1	4		
	Nonwhite	9		2	2	3	1	1			
Highland	Total	56		10	20	17	8	1			
	White	55		10	19	17	8	1			
	Nonwhite	1			1						
Rockbridge	Total	236	1	42	72	72	39	8	2		
	White	224	1	41	67	70	36	7	2		
	Nonwhite	12		1	5	2	3	1			
Rockingham	Total	819		128	257	266	141	23	4		
	White	797		121	251	258	141	22	4		
	Nonwhite	22		7	6	8		1			
Buena Vista	Total	79		5	27	26	16	5			
	White	73		4	23	26	15	5			
	Nonwhite	6		1	4		1				
Harrisonburg	Total	182	1	19	64	52	41	5			
	White	167	1	18	57	46	40	5			
	Nonwhite	15		1	7	6	1				
Lexington	Total	64		6	16	24	15	3			
	White	56		6	12	22	13	3			
	Nonwhite	8			4	2	2				
Staunton	Total	268	1	40	81	93	45	7	1		
	White	233	1	29	70	84	42	6	1		
	Nonwhite	35		11	11	9	3	1			
Waynesboro	Total	203	1	36	70	66	18	10	1		1
	White	177		27	63	58	17	10	1		1
	Nonwhite	26	1	9	7	8	1				
District 7	Total	1,794	4	351	649	508	216	50	15	1	
	White	1,702	4	317	620	491	207	47	15	1	
	Nonwhite	92		34	29	17	9	3			
Clarke	Total	133		23	43	43	19	4	1		
	White	115		16	35	42	18	3	1		
	Nonwhite	18		7	8	1	1	1			
Frederick	Total	500	2	92	175	150	58	17	6		
	White	489	2	87	173	147	57	17	6		
	Nonwhite	11		5	2	3	1				
Page	Total	258		61	93	65	33	4	1	1	
	White	251		58	92	64	32	3	1	1	
	Nonwhite	7		3	1	1	1	1			
Shenandoah	Total	373	1	52	137	120	50	12	1		
	White	369	1	51	136	119	49	12	1		
	Nonwhite	4		1	1	1	1				

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	803	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	419	10	6
District 7 (cont.)											
Warren	Total	288	1	75	94	79	31	5	3		
	White	264	1	65	89	72	29	5	3		
	Nonwhite	24		10	5	7	2				
Winchester	Total	242		48	107	51	25	8	3		
	White	214		40	95	47	22	7	3		
	Nonwhite	28		8	12	4	3	1			
District 8	Total	15,532	18	1,342	3,845	5,258	3,908	1,028	124	6	3
	White	13,036	10	971	3,100	4,471	3,460	911	106	5	2
	Nonwhite	2,496	8	371	745	787	448	117	18	1	1
Arlington	Total	1,897	1	135	429	651	525	136	19		1
	White	1,496	1	69	336	512	442	120			1
	Nonwhite	401		66	93	139	83	16			
Fairfax	Total	7,806	7	509	1,749	2,643	2,214	616	62	4	2
	White	6,719	6	410	1,440	2,278	1,977	547	56	4	1
	Nonwhite	1,087	1	99	309	365	237	69	6		1
Loudoun	Total	851	1	81	208	307	208	42	3	1	
	White	781	1	66	188	288	195	39	3	1	
	Nonwhite	70		15	20	19	13	3			
Prince William	Total	2,643	1	319	826	867	482	125	23		
	White	2,340	1	270	716	789	436	110	18		
	Nonwhite	303		49	110	78	46	15	5		
Alexandria	Total	1,456	7	191	384	481	314	65	13	1	
	White	895		63	190	323	254	55	10		
	Nonwhite	561	7	128	194	158	60	10	3	1	
Fairfax City	Total	307	1	24	75	121	66	19	1		
	White	282	1	23	69	107	64	17	1		
	Nonwhite	25		1	6	14	2	2			
Falls Church	Total	115		5	24	42	32	10	2		
	White	106		4	23	40	29	8	2		
	Nonwhite	9		1	1	2	3	2			
Manassas	Total	347		54	111	117	52	12	1		
	White	309		43	100	105	48	12	1		
	Nonwhite	38		11	11	12	4				
Manassas Park	Total	110		24	39	29	15	3			
	White	108		23	38	29	15	3			
	Nonwhite	2		1	1						
District 9	Total	1,323	8	235	463	385	185	42	5		
	White	1,051	5	145	365	337	160	36	3		
	Nonwhite	272	3	90	98	48	25	6	2		
Culpeper	Total	354	1	67	123	101	49	11	2		
	White	273	1	43	93	84	39	9			
	Nonwhite	81		24	26	17	10	2	2		
Fauquier	Total	488	4	86	165	150	63	20			
	White	399	2	57	132	133	56	19			
	Nonwhite	89	2	29	33	17	7	1			
Madison	Total	133	1	23	48	36	19	5	1		
	White	108	1	12	42	32	18	2	1		
	Nonwhite	25		11	6	4	1	3			
Orange	Total	266	1	50	99	72	37	5	2		
	White	193		25	69	62	30	5	2		
	Nonwhite	73	1	25	30	10	7				
Rappahannock	Total	82	1	9	28	26	17	1			
	White	78	1	8	25	26	17	1			
	Nonwhite	4		1	3						
District 10	Total	1,918	9	310	527	629	363	72	8		
	White	1,494	5	190	384	529	323	56	7		
	Nonwhite	424	4	120	143	100	40	16	1		
Albemarle	Total	704	2	97	180	247	155	20	3		
	White	608	1	77	149	215	144	19	3		
	Nonwhite	96	1	20	31	32	11	1			
Fluvanna	Total	151		27	45	45	23	9	2		
	White	111		15	28	39	19	8	2		
	Nonwhite	40		12	17	6	4	1			
Greene	Total	144	4	24	40	47	23	6			
	White	129	2	15	36	47	23	6			
	Nonwhite	15	2	9	4						
Louisa	Total	259	2	57	94	57	40	7	2		
	White	169	2	25	62	43	33	3	1		
	Nonwhite	90		32	32	14	7	4	1		
Nelson	Total	161		29	50	49	29	4			
	White	120		17	37	38	24	4			
	Nonwhite	41		12	13	11	5				
Charlottesville	Total	499	1	76	118	184	93	26	1		
	White	357		41	72	147	80	16	1		
	Nonwhite	142	1	35	46	37	13	10			

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	119	10	6
District 11	Total	2,565	7	402	851	777	426	82	20		
	White	1,933	2	244	623	628	358	63	15		
	Nonwhite	632	5	158	228	149	68	19	5		
Amherst	Total	372	1	63	103	126	66	11	2		
	White	287		36	78	106	58	8	1		
	Nonwhite	85	1	27	25	20	8	3	1		
Appomattox	Total	157	2	25	64	37	21	4	4		
	White	123	1	20	49	29	18	2	4		
	Nonwhite	34	1	5	15	8	3	2			
Bedford	Total	449		66	145	132	84	19	3		
	White	384		47	121	117	79	17	3		
	Nonwhite	65		19	24	15	5	2			
Campbell	Total	641	3	91	225	196	100	20	6		
	White	514	1	65	182	162	84	17	3		
	Nonwhite	127	2	26	43	34	16	3	3		
Bedford City	Total	70		14	21	22	11	2			
	White	56		10	13	20	11	2			
	Nonwhite	14		4	8	2					
Lynchburg	Total	876	1	143	293	264	144	26	5		
	White	569		66	180	194	108	17	4		
	Nonwhite	307	1	77	113	70	36	9	1		
District 12	Total	3,080	16	640	1,052	861	387	105	18	1	
	White	2,054	4	338	689	633	307	73	10		
	Nonwhite	1,026	12	302	363	228	80	32	8	1	
Franklin	Total	419		82	120	142	57	15	2	1	
	White	339		59	54	117	54	14	1		
	Nonwhite	80		23	26	25	3	1	1	1	
Henry	Total	792	7	174	270	210	101	26	4		
	White	561	4	104	189	163	78	21	2		
	Nonwhite	231	3	70	81	47	23	5	2		
Patrick	Total	174		26	64	47	24	12	1		
	White	161		23	59	43	24	11	1		
	Nonwhite	13		3	5	4		1			
Pittsylvania	Total	838	2	184	283	233	99	30	7		
	White	511		82	180	154	73	18	4		
	Nonwhite	327	2	102	103	79	26	12	3		
Danville	Total	635	4	125	240	168	81	16	1		
	White	356		52	130	111	58	5			
	Nonwhite	279	4	73	110	57	23	11	1		
Martinsville	Total	222	3	49	75	61	25	6	3		
	White	126		18	37	45	20	4	2		
	Nonwhite	96	3	31	38	16	5	2	1		
District 13	Total	1,169	5	225	414	322	145	49	6	3	
	White	547	2	67	193	166	92	22	4	1	
	Nonwhite	622	3	158	221	156	53	27	2	2	
Brunswick	Total	239	1	44	84	70	27	10	2	1	
	White	89		6	30	33	15	3	2		
	Nonwhite	150	1	38	54	37	12	7		1	
Halifax	Total	429	3	84	147	115	55	21	3	1	
	White	225	1	28	82	67	35	10	2		
	Nonwhite	204	2	56	65	48	20	11	1	1	
Mecklenburg	Total	399		81	145	109	47	16		1	
	White	183		30	61	49	34	8		1	
	Nonwhite	216		51	84	60	13	8			
South Boston	Total	102	1	16	38	28	16	2	1		
	White	50	1	3	20	17	8	1			
	Nonwhite	52		13	18	11	8	1	1		
District 14	Total	1,145	8	242	394	284	154	50	13		
	White	555	4	96	179	156	82	31	7		
	Nonwhite	590	4	146	215	128	72	19	6		
Amelia	Total	119	2	31	30	31	16	6	3		
	White	81	1	22	19	22	10	4	3		
	Nonwhite	38	1	9	11	9	6	2			
Buckingham	Total	163		35	55	53	15	5			
	White	78		13	22	32	7	4			
	Nonwhite	85		22	33	21	8	1			
Charlotte	Total	152	1	34	58	34	15	7	3		
	White	76	1	13	26	18	10	6	2		
	Nonwhite	76		21	32	16	5	1	1		
Cumberland	Total	96		20	23	15	21	5	2		
	White	44		5	14	9	11	5			
	Nonwhite	52		15	19	6	10		2		
Lunenburg	Total	161	1	35	62	38	18	7			
	White	79		10	32	21	13	3			
	Nonwhite	82	1	25	30	17	5	4			

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	119	10	6
District 14 (cont.)											
Nottoway	Total	207	4	38	72	54	31	7	1		
	White	96	2	17	33	26	15	3			
	Nonwhite	111	2	21	39	28	16	4	1		
Prince Edward	Total	247		49	84	59	38	13	4		
	White	101		16	33	28	16	6	2		
	Nonwhite	146		33	51	31	22	7	2		
District 15	Total	8,913	26	1,190	2,656	3,021	1,609	356	51	1	3
	White	5,628	4	453	1,460	2,193	1,236	245	37		
	Nonwhite	3,285	22	737	1,196	828	373	111	14	1	3
Charles City Co.	Total	104	1	29	25	28	16	3	2		
	White	19		2	6	6	4		1		
	Nonwhite	85	1	27	19	22	12	3	1		
Chesterfield	Total	2,030	1	162	493	816	458	83	16	1	
	White	1,789	1	124	424	741	411	73	15		
	Nonwhite	241		38	69	75	47	10	1	1	
Goochland	Total	133		18	46	33	25	9	2		
	White	86		8	23	27	23	4	1		
	Nonwhite	47		10	23	6	2	5	1		
Hanover	Total	620		49	178	226	131	35			1
	White	506		36	125	197	119	29			
	Nonwhite	114		13	53	29	12	6			1
Henrico	Total	2,301	4	193	657	863	461	106	16		1
	White	1,785	1	126	507	688	373	79	11		
	Nonwhite	516	3	67	150	175	88	27	5		1
New Kent	Total	114		9	36	40	23	5	1		
	White	84		6	24	30	20	3	1		
	Nonwhite	30		3	12	10	3	2			
Powhatan	Total	144		19	39	49	28	8	1		
	White	123		14	34	43	25	6	1		
	Nonwhite	21		5	5	6	3	2			
Richmond City	Total	3,467	20	711	1,182	966	467	107	13		1
	White	1,236	2	137	317	461	261	51	7		
	Nonwhite	2,231	18	574	865	505	206	56	6		1
District 16	Total	1,764	6	288	548	541	298	72	11		
	White	1,405		199	431	454	248	66	7		
	Nonwhite	359	6	89	117	87	50	6	4		
Caroline	Total	259	2	54	87	69	33	12	2		
	White	149		29	51	41	17	10	1		
	Nonwhite	110	2	25	36	28	16	2	1		
King George	Total	176	1	35	54	50	23	12	1		
	White	125		20	35	41	16	12	1		
	Nonwhite	51	1	15	19	9	7				
Spotsylvania	Total	557	1	81	173	186	98	14	4		
	White	472		65	139	164	90	12	2		
	Nonwhite	85	1	16	34	22	8	2	2		
Stafford	Total	574	2	80	168	179	114	28	3		
	White	520		65	157	165	104	27	2		
	Nonwhite	54	2	15	11	14	10	1	1		
Fredericksburg	Total	198		38	66	57	30	6	1		
	White	139		20	49	43	21	5	1		
	Nonwhite	59		18	17	14	9	1			
District 17	Total	512	3	119	174	128	58	22	8		
	White	269		38	85	89	39	15	3		
	Nonwhite	243	3	81	89	39	19	7	5		
Lancaster	Total	106	2	28	32	28	9	6	1		
	White	50		9	12	21	5	3			
	Nonwhite	56	2	19	20	7	4	3	1		
Northumberland	Total	123		30	38	33	14	6	2		
	White	72		8	24	25	10	5			
	Nonwhite	51		22	14	8	4	1	2		
Richmond	Total	102		19	37	32	10	3	1		
	White	52		5	18	19	8	2			
	Nonwhite	50		14	19	13	2	1	1		
Westmoreland	Total	181	1	42	67	35	25	7	4		
	White	95		16	31	24	16	5	3		
	Nonwhite	86	1	26	36	11	9	2	1		
District 18	Total	753	1	121	255	222	119	25	9	1	
	White	506		70	153	166	98	15	4		
	Nonwhite	247	1	51	102	56	21	10	5	1	
Essex	Total	135		31	37	33	29	1	3	1	
	White	69		11	18	18	22				
	Nonwhite	66		20	19	15	7	1	3	1	
Gloucester	Total	262		46	79	80	45	11	1		
	White	223		40	60	72	41	9	1		
	Nonwhite	39		6	19	8	4	2			

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	119	10	6
District 18 (cont.)											
King and Queen	Total	89	1	12	39	22	11	2	2		
	White	35		3	12	10	8	1	1		
	Nonwhite	54	1	9	27	12	3	1	1		
King William	Total	117		6	55	36	14	6			
	White	75		3	29	28	11	4			
	Nonwhite	42		3	26	8	3	2			
Mathews	Total	65		8	20	27	7	2	1		
	White	50		5	17	21	6				
	Nonwhite	15		3	3	6	1	2			
Middlesex	Total	85		18	25	24	13	3	2		
	White	54		8	17	17	10	1	1		
	Nonwhite	31		10	8	7	3	2	1		
District 19	Total	2,375	16	450	828	672	322	77	9		1
	White	1,187	2	152	411	389	191	37	5		
	Nonwhite	1,188	14	298	417	283	131	40	4		1
Dinwiddie	Total	243	2	43	89	58	39	12			
	White	139	1	19	52	37	25	5			
	Nonwhite	104	1	24	37	21	14	7			
Greensville	Total	183	1	50	65	47	15	5			
	White	55		4	25	16	8	2			
	Nonwhite	128	1	46	40	31	7	3			
Prince George	Total	326	1	45	92	109	58	19	2		
	White	211		18	63	76	40	14			
	Nonwhite	115	1	27	29	33	18	5	2		
Surry	Total	90		18	32	28	8	4			
	White	32		4	9	14	3	2			
	Nonwhite	58		14	23	14	5	2			
Sussex	Total	158	1	33	56	39	20	8	1		
	White	45		5	8	20	8	4			
	Nonwhite	113	1	28	48	19	12	4	1		
Colonial Heights	Total	168		16	51	56	41	4			
	White	162		16	50	54	38	4			
	Nonwhite	6			1	2	3				
Emporia	Total	82	2	28	20	19	10	2	1		
	White	35		7	8	12	7	1			
	Nonwhite	47	2	21	12	7	3	1	1		
Hopewell	Total	408	1	68	163	112	53	6	5		
	White	292	1	43	115	87	38	3	5		
	Nonwhite	116		25	48	25	15	3			
Petersburg	Total	717	8	149	260	204	78	17			1
	White	216		36	81	73	24	2			
	Nonwhite	501	8	113	179	131	54	15			1
District 20	Total	14,722	56	2,564	5,475	4,141	1,929	471	77	7	2
	White	9,231	9	1,164	3,454	2,873	1,386	295	46	3	1
	Nonwhite	5,491	47	1,400	2,021	1,268	543	176	31	4	1
Isle of Wight	Total	307	2	61	99	93	37	14	1		
	White	168	1	25	48	63	24	6	1		
	Nonwhite	139	1	36	51	30	13	8			
Southampton	Total	218	1	41	80	58	31	5	2		
	White	101		8	38	31	23	1			
	Nonwhite	117	1	33	42	27	8	4	2		
Chesapeake	Total	1,894	2	376	647	546	246	68	7	2	
	White	1,212	1	178	413	395	178	43	3	1	
	Nonwhite	682	1	198	234	151	68	25	4	1	
Franklin City	Total	109	1	23	36	26	21	2			
	White	45	1	6	9	15	12	2			
	Nonwhite	64		17	27	11	9				
Norfolk	Total	5,269	21	1,025	2,213	1,322	531	131	22	2	2
	White	2,957	1	449	1,309	813	317	55	11	1	1
	Nonwhite	2,312	20	576	904	509	214	76	11	1	1
Portsmouth	Total	2,021	16	426	789	522	202	50	13	3	
	White	909		115	373	270	118	27	5	1	
	Nonwhite	1,112	16	311	416	252	84	23	8	2	
Suffolk	Total	691	6	150	240	170	95	25	5		
	White	294		28	85	99	65	13	4		
	Nonwhite	397	6	122	155	71	30	12	1		
Virginia Beach	Total	4,213	7	462	1,371	1,404	766	176	27		
	White	3,545	5	355	1,179	1,187	649	148	22		
	Nonwhite	668	2	107	192	217	117	28	5		
District 21	Total	5,537	15	890	2,035	1,638	775	158	25	1	
	White	3,566	7	428	1,270	1,160	580	104	16	1	
	Nonwhite	1,971	8	462	765	478	195	54	9		
James City Co.	Total	280	1	60	70	91	46	11	1		
	White	182		23	43	64	42	9	1		
	Nonwhite	98	1	37	27	27	4	2			

(continued)

TABLE 12
RESIDENT BIRTHS BY RACE BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Race	Total	Age of Mother								
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unk.
STATE OF VIRGINIA	Total	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
	White	56,736	84	7,147	17,754	18,379	10,501	2,465	384	18	4
	Nonwhite	20,163	160	4,835	7,191	4,944	2,231	667	119	10	6
District 21 (cont.)											
York	Total	289		38	80	87	64	19	1		
	White	220		21	56	74	52	16	1		
	Nonwhite	69		17	24	13	12	3			
Hampton	Total	2,059	4	294	786	608	289	69	9		
	White	1,305	2	150	513	404	190	41	5		
	Nonwhite	754	2	144	273	204	99	28	4		
Newport News	Total	2,682	9	463	1,026	772	343	55	13	1	
	White	1,676	5	216	600	544	268	34	8	1	
	Nonwhite	1,006	4	247	426	228	75	21	5		
Poquoson	Total	102		9	27	40	23	2	1		
	White	102		9	27	40	23	2	1		
	Nonwhite										
Williamsburg	Total	125	1	26	46	40	10	2			
	White	81		9	31	34	5	2			
	Nonwhite	44	1	17	15	6	5				
District 22	Total	687	11	185	281	141	46	18	5		
	White	303		57	115	83	35	12	1		
	Nonwhite	384	11	128	166	58	11	6	4		
Accomack	Total	440	8	112	180	95	30	11	4		
	White	208		42	80	54	22	9	1		
	Nonwhite	232	8	70	100	41	8	2	3		
Northampton	Total	247	3	73	101	46	16	7	1		
	White	95		15	35	29	13	3			
	Nonwhite	152	3	58	66	17	3	4	1		

TABLE 13
RESIDENT LIVE BIRTHS BY BIRTH ORDER BY BIRTHWEIGHT
VIRGINIA, 1979

Birthweight	Total	Birth Order										
		1	2	3	4	5	6	7	8	9	10+	Unk.
TOTAL	76,899	34,908	25,241	10,682	3,730	1,311	508	221	114	73	86	25
Immature	5,814	2,779	1,705	789	310	132	55	17	8	9	7	2
Less than 1 lb.2oz.	129	61	37	19	9	1	1	1				
1lb.2oz.-3lb.4oz.	925	445	283	107	50	23	9	2	2	3		1
3lb.5oz.-5lb.8oz.	4,760	2,273	1,385	663	251	108	45	14	6	6	7	2
Full Term	70,987	32,084	23,517	9,877	3,414	1,178	452	204	106	64	79	12
5lb.9oz.-7lb.11oz.	41,277	19,886	13,103	5,372	1,827	607	226	102	62	42	42	8
7lb.12oz.-9lb.14oz.	28,319	11,743	9,930	4,254	1,489	515	205	93	35	20	31	4
9lb.15oz. and over	1,391	455	484	251	98	56	21	9	9	2	6	
Unknown	98	45	19	16	6	1	1					10

TABLE 14
RESIDENT LIVE BIRTHS BY BIRTHWEIGHT BY RACE AND AGE OF MOTHER
VIRGINIA, 1979

Age of Mother (in years)	Total	Birthweight (pounds/ounces)													
		Under 1/02	1/02 2/03	2/04 3/04	3/05 4/06	4/07 5/08	Total Immature	5/09 6/09	6/10 7/11	7/12 8/13	8/14 9/14	9/15 11/00	Over 11/00	Total Full	Unknown
TOTAL	76,899	129	384	541	1,143	3,617	5,814	13,161	28,116	21,609	6,710	1,201	190	70,987	98
Under 15	244	2	6	6	7	19	40	55	94	44	7	4		204	
15-19	11,982	22	77	144	271	778	1,292	2,664	4,556	2,752	606	87	14	10,679	11
20-24	24,945	40	124	159	385	1,266	1,974	4,522	9,292	6,808	1,961	306	47	22,936	35
25-29	23,323	39	109	125	284	892	1,449	3,599	8,586	6,960	2,235	404	58	21,842	32
30-34	12,732	20	50	82	148	477	777	1,812	4,364	3,946	1,472	292	55	11,941	14
35-39	3,132	5	17	18	43	153	236	443	1,050	938	359	86	15	2,891	5
40-44	503	1	1	5	5	29	41	62	162	152	64	21	1	462	
45 and over	28			1		2	3	3	10	6	5	1		25	
Unknown	10			1		1	2	1	2	3	1			7	1
WHITE	56,736	53	225	323	669	2,191	3,461	8,271	20,351	17,502	5,882	1,045	159	53,210	65
Under 15	84	1	5		3	4	13	14	34	19	2	2		71	
15-19	7,147	5	42	69	140	361	617	1,290	2,662	1,988	499	74	10	6,523	7
20-24	17,754	15	68	89	207	730	1,109	2,754	6,511	5,369	1,697	256	37	16,624	21
25-29	18,379	21	59	91	196	619	986	2,514	6,651	5,812	1,997	351	48	17,373	20
30-34	10,501	8	37	58	100	349	552	1,343	3,540	3,411	1,321	271	51	9,937	12
35-39	2,465	2	14	10	22	107	155	312	825	777	309	71	12	2,306	4
40-44	384	1		5	1	19	26	43	121	122	52	19	1	358	
45 and over	18			1		1	2	1	6	4	4	1		16	
Unknown	4					1	1		1		1			2	1
NONWHITE	20,163	76	159	218	474	1,426	2,353	4,890	7,765	4,107	828	156	31	17,777	33
Under 15	160	1	1	6	4	15	27	41	60	25	5	2		133	
15-19	4,835	17	35	75	131	417	675	1,374	1,894	764	107	13	4	4,156	4
20-24	7,191	25	56	70	178	536	865	1,768	2,781	1,439	264	50	10	6,312	14
25-29	4,944	18	50	34	88	273	463	1,085	1,935	1,148	238	53	10	4,469	12
30-34	2,231	12	13	24	48	128	225	469	824	535	151	21	4	2,004	2
35-39	667	3	3	8	21	46	81	131	225	161	50	15	3	585	1
40-44	119		1		4	10	15	19	41	30	12	2		104	
45 and over	10					1	1	2	4	2	1			9	
Unknown	6			1			1	1	1	3				5	

TABLE 15
RESIDENT LIVE BIRTHS BY EDUCATION OF MOTHER BY BIRTH ORDER
VIRGINIA, 1979

Birth Order	Total	Highest Grade Completed						
		Elementary		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4+	
TOTAL	76,899	720	3,500	16,074	30,517	12,829	13,049	210
1	34,908	205	1,246	7,136	13,811	5,956	6,458	96
2	25,241	167	860	4,684	10,534	4,368	4,578	50
3	10,682	130	650	2,476	4,208	1,721	1,469	28
4	3,730	93	368	1,005	1,334	537	386	7
5	1,311	49	179	445	379	155	100	4
6	508	29	91	165	140	51	32	
7	221	14	35	68	60	26	15	3
8+	273	33	71	95	49	14	11	
Unknown	25				2	1		22

TABLE 16
RESIDENT LIVE BIRTHS BY EDUCATION OF MOTHER BY TRIMESTER CARE BEGAN
VIRGINIA, 1979

Trimester Care Began	Total	Highest Grade Completed						
		Elementary		High School		College		Unk.
		0-6	7-8	9-11	12	1-3	4+	
TOTAL	76,899	720	3,500	16,074	30,517	12,829	13,049	210
First	62,258	442	2,294	10,965	25,301	11,229	11,920	107
Second	11,353	187	915	3,958	4,222	1,270	765	36
Third	2,075	59	207	813	665	186	134	11
None	527	14	55	255	139	35	17	12
Unknown	686	18	29	83	190	109	213	44

TABLE 17
RESIDENT LIVE BIRTHS BY BIRTH ORDER BY TRIMESTER CARE BEGAN
VIRGINIA, 1979

Trimester Care Began	Total	Birth Order								
		1	2	3	4	5	6	7	8+	Unk.
TOTAL	76,899	34,908	25,241	10,682	3,730	1,311	508	221	273	25
First	62,258	28,183	21,012	8,600	2,893	921	337	146	163	3
Second	11,353	5,277	3,272	1,625	633	285	119	56	85	1
Third	2,075	927	594	288	138	62	33	14	17	2
None	527	218	138	79	40	33	11	3	4	1
Unknown	686	303	225	90	26	10	8	2	4	18

TABLE 18
RESIDENT LIVE BIRTHS BY AGE OF MOTHER BY TRIMESTER CARE BEGAN
VIRGINIA, 1979

Trimester Care Began	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unk.
TOTAL	76,899	244	11,982	24,945	23,323	12,732	3,132	503	28	10
First	62,258	109	7,610	19,925	20,355	11,247	2,631	363	15	3
Second	11,353	98	3,404	3,977	2,315	1,086	365	96	11	1
Third	2,075	26	691	729	356	183	63	27		
None	527	10	207	162	87	38	13	7	2	1
Unknown	686	1	70	152	210	178	60	10		5

TABLE 19 - COMPLICATIONS OF PREGNANCY REPORTED FOR RESIDENT LIVE BIRTHS BY TRIMESTER CARE BEGAN, VIRGINIA, 1979

Complications of Pregnancy	Trimester Care Began					
	Total	1st	2nd	3rd	None	Unknown
Unduplicated Count of Births with Complications	20,081	16,256	2,896	511	126	292
Complications Related to Pregnancy						
Hemorrhage in early pregnancy	175	152	18	3		2
Placenta previa	278	230	36	5	3	4
Premature separation of placenta	301	230	51	7	5	8
Other and unspecified antepartum hemorrhage	95	63	16	3	2	11
Pre-eclampsia and eclampsia	1,349	1,072	211	41	14	11
Other and unspecified hypertension	751	574	126	33	4	14
Excessive vomiting	51	43	7	1		
Early or threatened labor	1,131	859	204	21	37	10
Prolonged pregnancy	207	158	40	7		2
Edema or excessive weight gain	112	80	27	5		
Infections of genitourinary tract	332	217	63	7	3	42
Other and unspecified complications of pregnancy	17	12	1			4
Conditions in the Mother Complicating the Pregnancy						
Venereal disease	34	23	9	2		
Other infective and parasitic diseases	107	79	12	4		12
Diabetes mellitus	311	249	49	3		10
Anemia	151	88	34	9	1	19
Phlebitis, thrombosis and other venous complications	65	50	11	4		
Obesity	101	66	26	9		
Injury during pregnancy	46	44	1		1	
Operation during pregnancy	67	61	4	1		1
Other conditions in mother affecting pregnancy	350	277	55	9	4	5
Complications Affecting Delivery						
Multiple pregnancy	343	294	44	5		
Malposition or malpresentation of fetus	2,002	1,633	281	40	21	27
Fetopelvic disproportion	2,981	2,492	389	63	6	31
Uterine scar from previous surgery	2,911	2,490	344	53	3	21
Cervical incompetence	132	117	11	3		1
Other or unspecified abnormality of organs and soft tissues of pelvis	69	53	10	2	2	2
Rh incompatibility	340	206	79	24	2	29
Fetal distress	1,808	1,425	272	53	9	49
Other fetal and placental problems	119	99	11	5		4
Polyhydramnios	58	42	13	1	1	1
Premature rupture of membranes	982	772	158	27	7	18
Other problems associated with amniotic cavity and membranes	62	50	11			1
Obstructed labor	358	292	50	11		5
Abnormality of forces of labor	258	205	40	10	2	1
Prolonged labor	984	810	135	29	1	9
Umbilical cord complications	1,945	1,519	288	68	12	58
Perineal laceration	944	786	118	28	9	3
Other obstetrical trauma	107	86	17	3	1	
Postpartum hemorrhage	144	112	28	2	1	1
Retained placenta or membranes	166	125	26	5		10
Other and unspecified complications of labor and delivery	114	96	14	2		2
Type of Delivery (if specified on certificate)						
Forceps or ventouse delivery	199	148	25	12	1	13
Breech extraction	9	9				
Cesarean delivery	6,944	5,787	913	146	17	81

TABLE 20 - CONGENITAL ANOMALIES REPORTED FOR RESIDENT LIVE BIRTHS BY TRIMESTER CARE BEGAN, VIRGINIA, 1979

Congenital Anomalies	Trimester Care Began					
	Total	1st	2nd	3rd	None	Unknown
Unduplicated Count of Infants with Anomalies	661	521	99	23	5	13
All Congenital Anomalies						
Anencephalus	14	13	1			
Spina bifida	30	23	6			1
Other anomalies of nervous system	26	20	4	1		1
Anomalies of eye	10	9	1			
Anomalies of ear, face, and neck	24	21	3			
Bulbus cordis anomalies and anomalies of cardiac septal closure	13	11	1	1		
Other anomalies of heart	48	39	6	3		
Other anomalies of circulatory system	11	9	2			
Anomalies of respiratory system	9	5	4			
Cleft palate and cleft lip	82	64	10	4	1	3
Other anomalies of upper alimentary tract	13	7	5	1		
Other anomalies of digestive system	30	24	4	1		1
Undescended testicle	23	13	8	1		1
Hypospadias and epispadias	38	28	8	1	1	
Other anomalies of genitourinary systems	19	17	1	1		
Congenital dislocation of hip	20	16	3		1	
Deformities of feet	81	67	12	1		1
Polydactyly	65	51	10	3		1
Syndactyly	16	12	2	1		1
Other anomalies of limbs	47	38	6	3		
Other anomalies of musculoskeletal system	39	34	3	1		1
Anomalies of the integument	20	12	6	1		1
Down's syndrome	35	26	8		1	
Other chromosomal anomalies	9	8		1		
Other and unspecified anomalies	44	35	6	1	1	1

TABLE 21 - RESIDENT LIVE BIRTHS AND NATURAL FETAL DEATHS BY RACE AND SEX BY MONTH OF DELIVERY AND NUMBER OF INDIVIDUALS DELIVERED PER CONFINEMENT, VIRGINIA, 1979

Month	Live Births					Natural Fetal Deaths						
	Total	White		Nonwhite		Total	White			Nonwhite		
		Male	Female	Male	Female		Male	Female	Unk.	Male	Female	Unk.
TOTAL	76,899	29,213	27,523	10,263	9,900	6,205	380	236	3,804	213	188	1,384
January	6,347	2,450	2,203	870	824	583	29	18	362	23	16	135
February	5,741	2,118	2,136	757	730	511	28	22	324	11	17	109
March	6,294	2,367	2,240	817	870	599	26	17	384	23	21	128
April	5,826	2,253	2,108	769	696	512	29	17	313	22	15	116
May	6,247	2,401	2,233	838	775	516	35	13	310	29	15	114
June	6,229	2,416	2,257	763	793	490	27	29	305	15	14	100
July	6,786	2,582	2,379	927	898	527	43	17	307	15	13	132
August	7,061	2,707	2,496	978	880	457	35	19	273	17	13	100
September	6,946	2,550	2,500	958	938	479	26	18	312	11	12	100
October	6,593	2,557	2,398	811	827	501	32	24	305	18	10	112
November	6,467	2,406	2,339	909	813	520	35	17	312	16	25	115
December	6,362	2,406	2,234	866	856	510	35	25	297	13	17	123
Single births	75,324	28,644	26,959	10,048	9,673	6,098	346	212	3,798	198	176	1,368
Born as twins	1,546	558	549	213	226	102	33	24	5	15	12	13
Born as triplets	29	11	15	2	1	5	1		1			3

TABLE 22 - RESIDENT LIVE BIRTHS BY SEX AND SEX RATIO BY RACE VIRGINIA, 1970-1979

Year	Total			White			Nonwhite		
	Male	Female	Males per 1,000 Females	Male	Female	Males per 1,000 Females	Male	Female	Males per 1,000 Females
1970	44,133	41,948	1,052	34,334	32,323	1,062	9,799	9,625	1,018
1971	42,501	40,212	1,057	32,854	30,738	1,069	9,647	9,474	1,018
1972	38,718	36,350	1,065	29,788	27,652	1,077	8,930	8,698	1,027
1973	36,705	34,960	1,050	28,221	26,656	1,059	8,484	8,304	1,022
1974	36,478	34,588	1,055	28,008	26,240	1,067	8,470	8,348	1,015
1975	35,975	34,057	1,056	27,382	25,825	1,060	8,593	8,232	1,044
1976	35,875	34,097	1,052	27,259	25,753	1,058	8,616	8,344	1,033
1977	38,259	35,987	1,063	28,784	26,878	1,071	9,475	9,109	1,040
1978	37,714	35,635	1,058	28,284	26,637	1,062	9,430	8,998	1,048
1979	39,476	37,423	1,055	29,213	27,523	1,061	10,263	9,900	1,037

TABLE 23 - RESIDENT PREGNANCY TERMINATIONS (LIVE BIRTHS, INDUCED ABORTIONS AND NATURAL FETAL DEATHS) BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY AGE OF MOTHER, VIRGINIA, 1979

Age of Mother	Total			White			Nonwhite		
	Number		Percent	Number		Percent	Number		Percent
	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.
TOTAL	112,559	39,242	34.9	81,609	21,210	26.0	30,950	18,032	58.3
Under 15	662	626	94.6	248	214	86.3	414	412	99.5
15-19 years	22,393	15,373	68.7	14,805	8,713	58.9	7,588	6,660	87.8
15 years	1,472	1,307	88.8	761	611	80.3	711	696	97.9
16 years	3,134	2,504	79.9	1,934	1,354	70.0	1,200	1,150	95.8
17 years	4,446	3,265	73.4	2,935	1,874	63.9	1,511	1,391	92.1
18 years	6,207	4,239	68.3	4,277	2,573	60.2	1,930	1,666	86.3
19 years	7,134	4,058	56.9	4,898	2,301	47.0	2,236	1,757	78.6
20-24 years	37,113	14,249	38.4	26,161	7,609	29.1	10,952	6,640	60.6
25-29 years	30,195	5,696	18.9	22,979	2,884	12.6	7,216	2,812	39.0
30-34 years	16,285	2,187	13.4	13,006	1,173	9.0	3,279	1,014	30.9
35-39 years	4,763	813	17.1	3,576	441	12.3	1,187	372	31.3
40-44 years	991	223	22.5	718	125	17.4	273	98	35.9
45 years & over	72	20	27.8	55	12	21.8	17	8	47.1
Unknown	85	55	64.7	61	39	63.9	24	16	66.7

TABLE 24 - RESIDENT LIVE BIRTHS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY AGE OF MOTHER, VIRGINIA, 1979

Age of Mother	Total			White			Nonwhite		
	Number		Percent	Number		Percent	Number		Percent
	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.
TOTAL	76,899	14,246	18.5	56,736	4,417	7.8	20,163	9,829	48.7
Under 15 years	244	215	88.1	84	56	66.7	160	159	99.4
15-19 years	11,982	5,806	48.5	7,147	1,792	25.1	4,835	4,014	83.0
15 years	657	503	76.6	281	141	50.2	376	362	96.3
16 years	1,548	985	63.6	792	276	34.8	756	709	93.8
17 years	2,342	1,262	53.9	1,366	400	29.3	976	862	88.3
18 years	3,193	1,495	46.8	1,960	487	24.8	1,233	1,008	81.8
19 years	4,242	1,561	36.8	2,748	488	17.8	1,494	1,073	71.8
20-24 years	24,945	5,237	21.0	17,754	1,573	8.9	7,191	3,664	51.0
25-29 years	23,323	2,003	8.6	18,379	633	3.4	4,944	1,370	27.7
30-34 years	12,732	700	5.5	10,501	248	2.4	2,231	452	20.3
35-39 years	3,132	222	7.1	2,465	87	3.5	667	135	20.2
40-44 years	503	52	10.3	384	25	6.5	119	27	22.7
45 years and over	28	5	17.9	18	1	5.6	10	4	40.0
Unknown	10	6	60.0	4	2	50.0	6	4	66.7

TABLE 25 - RESIDENT INDUCED ABORTIONS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY AGE OF MOTHER, VIRGINIA, 1979

Age of Mother	Total			White			Nonwhite		
	Number		Percent	Number		Percent	Number		Percent
	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.
TOTAL	29,455	23,340	79.2	20,453	16,096	78.7	9,002	7,244	80.5
Under 15 years	380	374	98.4	155	150	96.8	225	224	99.6
15-19 years	9,519	9,032	94.9	7,097	6,672	94.0	2,422	2,360	97.4
15 years	762	756	99.2	460	454	98.7	302	302	100.0
16 years	1,477	1,443	97.7	1,077	1,045	97.0	400	398	99.5
17 years	1,952	1,899	97.3	1,474	1,423	96.5	478	476	99.6
18 years	2,750	2,594	94.3	2,149	2,016	93.8	601	578	96.2
19 years	2,578	2,340	90.8	1,937	1,734	89.5	641	606	94.5
20-24 years	10,361	8,436	81.4	7,198	5,810	80.7	3,163	2,626	83.0
25-29 years	5,071	3,408	67.2	3,230	2,136	66.1	1,841	1,272	69.1
30-34 years	2,488	1,355	54.5	1,681	870	51.8	807	485	60.1
35-39 years	1,195	534	44.7	789	327	41.4	406	207	51.0
40-44 years	360	151	41.9	238	93	39.1	122	58	47.5
45 years and over	32	12	37.5	27	9	33.3	5	3	60.0
Unknown	49	38	77.6	38	29	76.3	11	9	81.8

TABLE 26 - RESIDENT NATURAL FETAL DEATHS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY AGE OF MOTHER, VIRGINIA, 1979

Age of Mother	Total			White			Nonwhite		
	Number		Percent	Number		Percent	Number		Percent
	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.	Total	Illeg.	Illeg.
TOTAL	6,205	1,656	26.7	4,420	697	15.8	1,785	959	53.7
Under 15 years	38	37	97.4	9	8	88.9	29	29	100.0
15-19 years	892	535	60.0	561	249	44.4	331	286	86.4
15 years	53	48	90.6	20	16	80.0	33	32	97.0
16 years	109	76	69.7	65	33	50.8	44	43	97.7
17 years	152	104	68.4	95	51	53.7	57	53	93.0
18 years	264	150	56.8	168	70	41.7	96	80	83.3
19 years	314	157	50.0	213	79	37.1	101	78	77.2
20-24 years	1,807	576	31.9	1,209	226	18.7	598	350	58.5
25-29 years	1,801	285	15.8	1,370	115	8.4	431	170	39.4
30-34 years	1,065	132	12.4	824	55	6.7	241	77	32.0
35-39 years	436	57	13.1	322	27	8.4	114	30	26.3
40-44 years	128	20	15.6	96	7	7.3	32	13	40.6
45 years and over	12	3	25.0	10	2	20.0	2	1	50.0
Unknown	26	11	42.3	19	8	42.1	7	3	42.9

TABLE 27 - TEENAGE TOTAL PREGNANCY TERMINATIONS, LIVE BIRTHS, INDUCED ABORTIONS, AND NATURAL FETAL DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Teenage Total Pregnancy Terminations			Teenage Live Births			Teenage Induced Abortions			Teenage Natural Fetal Deaths		
	Total	Under 15	15-19	Total	Under 15	15-19	Total	Under 15	15-19	Total	Under 15	15-19
STATE OF VIRGINIA	23,055	662	22,393	12,226	244	11,982	9,899	380	9,519	930	38	892
District 1	391	4	387	347	3	344	36	1	35	8		8
Lee	80	2	78	74	1	73	5	1	4	1		1
Scott	71		71	69		69	2		2			
Wise	216	2	214	185	2	183	24		24	7		7
Norton	24		24	19		19	5		5			
District 2	603	9	594	522	6	516	51	3	48	30		30
Buchanan	194	2	192	171	1	170	13	1	12	10		10
Dickenson	93		93	84		84	2		2	7		7
Russell	108	4	104	98	4	94	6		6	4		4
Tazewell	208	3	205	169	1	168	30	2	28	9		9
District 3	616	11	605	429	5	424	153	6	147	34		34
Bland	14		14	10		10	4		4			
Carroll	89	1	88	59	1	58	19		19	11		11
Grayson	53	1	52	38	1	37	11		11	4		4
Smyth	105	1	104	70		70	29	1	28	6		6
Washington	149	3	146	115	1	114	28	2	26	6		6
Wythe	111	3	108	69	2	67	36	1	35	6		6
Bristol	65		65	48		48	17		17			
Galax	30	2	28	20		20	9	2	7	1		1
District 4	576	7	569	266	4	262	294	2	292	16	1	15
Floyd	29		29	20		20	9		9			
Giles	61	2	59	42	2	40	17		17	2		2
Montgomery	263	2	261	98	1	97	157	1	156	8		8
Pulaski	138	3	135	85	1	84	47	1	46	6	1	5
Radford	85		85	21		21	64		64			
District 5	1,001	28	973	486	12	474	474	14	460	41	2	39
Alleghany	41	1	40	27	1	26	13		13	1		1
Botetourt	68		68	43		43	21		21	4		4
Craig	16	1	15	8		8	6	1	5	2		2
Roanoke	209	5	204	67	2	65	134	3	131	8		8
Clifton Forge	11		11	5		5	6		6			
Covington	44	1	43	25		25	19	1	18			
Roanoke City	514	19	495	279	9	270	217	8	209	18	2	16
Salem	98	1	97	32		32	58	1	57	8		8
District 6	718	15	703	413	5	408	272	10	262	33		33
Augusta	219	5	214	106	1	105	101	4	97	12		12
Bath	25		25	17		17	6		6	2		2
Highland	10		10	10		10						
Rockbridge	62	2	60	43	1	42	18	1	17	1		1
Rockingham	217	3	214	128		128	81	3	78	8		8
Buena Vista	18		18	5		5	13		13			
Harrisonburg	43	1	42	20	1	19	19		19	4		4
Lexington	11		11	6		6	4		4	1		1
Staunton	61	1	60	41	1	40	17		17	3		3
Waynesboro	52	3	49	37	1	36	13	2	11	2		2
District 7	488	7	481	355	4	351	108	2	106	25	1	24
Clarke	34		34	23		23	7		7	4		4
Frederick	130	3	127	94	2	92	30		30	6	1	5
Page	79	2	77	61		61	13	2	11	5		5
Shenandoah	80	1	79	53	1	52	25		25	2		2
Warren	103	1	102	76	1	75	22		22	5		5
Winchester	62		62	48		48	11		11	3		3
District 8	3,501	69	3,432	1,360	18	1,342	2,016	46	1,970	125	5	120
Arlington	324	4	320	136	1	135	182	3	179	6		6
Fairfax	1,727	34	1,693	516	7	509	1,161	25	1,136	50	2	48
Loudoun	191	4	187	82	1	81	101	3	98	8		8
Prince William	640	10	630	320	1	319	288	7	281	32	2	30
Alexandria	371	13	358	198	7	191	155	5	150	18	1	17
Fairfax City	105	2	103	25	1	24	77	1	76	3		3
Falls Church	35	2	33	5		5	30	2	28			
Manassas	82		82	54		54	21		21	7		7
Manassas Park	26		26	24		24	1		1	1		1
District 9	403	13	390	243	8	235	147	5	142	13		13
Culpeper	106	1	105	68	1	67	34		34	4		4
Fauquier	148	5	143	90	4	86	53	1	52	5		5
Madison	49	2	47	24	1	23	22	1	21	3		3
Orange	82	4	78	51	1	50	30	3	27	1		1
Rappahannock	18	1	17	10	1	9	8		8			
District 10	585	19	566	319	9	310	258	9	249	8	1	7
Albemarle	216	7	209	99	2	97	112	4	108	5	1	4
Fluvanna	39		39	27		27	12		12			
Greene	42	4	38	28	4	24	14		14			
Louisa	85	2	83	59	2	57	25		25	1		1
Nelson	52		52	29		29	22		22	1		1
Charlottesville	151	6	145	77	1	76	73	5	68	1		1
District 11	728	28	700	409	7	402	267	17	250	52	4	48
Amherst	101	1	100	64	1	63	30		30	7		7
Appomattox	45	4	41	27	2	25	13	2	11	5		5
Bedford	108	2	106	66		66	34	2	32	8		8
Campbell	160	8	152	94	3	91	56	5	51	10		10
Bedford City	26	1	25	14		14	10	1	9	2		2
Lynchburg	288	12	276	144	1	143	124	7	117	20	4	16

(continued)

TABLE 27 -- TEENAGE TOTAL PREGNANCY TERMINATIONS, LIVE BIRTHS, INDUCED ABORTIONS, AND NATURAL FETAL DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Teenage Total Pregnancy Terminations			Teenage Live Births			Teenage Induced Abortions			Teenage Natural Fetal Deaths		
	Total	Under 15	15-19	Total	Under 15	15-19	Total	Under 15	15-19	Total	Under 15	15-19
STATE OF VIRGINIA	23,055	662	22,393	12,226	244	11,982	9,899	380	9,519	930	38	892
District 12	971	27	944	656	16	640	264	6	258	51	5	46
Franklin	151	1	150	82		82	56	1	55	13		13
Henry	272	9	263	181	7	174	81	2	79	10		10
Patrick	37		37	26		26	7		7	4		4
Pittsylvania	250	6	244	186	2	184	53	2	51	11	2	9
Danville	177	6	171	129	4	125	37	1	36	11	1	10
Martinsville	84	5	79	52	3	49	30		30	2	2	
District 13	366	11	355	230	5	225	114	6	108	22		22
Brunswick	77	2	75	45	1	44	27	1	26	5		5
Halifax	137	5	132	87	3	84	43	2	41	7		7
Mecklenburg	123	3	120	81		81	35	3	32	7		7
South Boston	29	1	28	17	1	16	9		9	3		3
District 14	422	20	402	250	8	242	148	11	137	24	1	23
Amelia	56	3	53	33	2	31	20	1	19	3		3
Buckingham	44		44	35		35	6		6	3		3
Charlotte	56	2	54	35	1	34	14	1	13	7		7
Cumberland	26		26	20		20	4		4	2		2
Lunenburg	58	3	55	36	1	35	20	1	19	2	1	1
Nottoway	84	11	73	42	4	38	39	7	32	3		3
Prince Edward	98	1	97	49		49	45	1	44	4		4
District 15	3,140	112	3,028	1,216	26	1,190	1,786	79	1,707	138	7	131
Charles City Co.	52	3	49	30	1	29	20	2	18	2		2
Chesterfield	508	7	501	163	1	162	324	6	318	21		21
Goochland	40	1	39	18		18	21	1	20	1		1
Hanover	164		164	49		49	112		112	3		3
Henrico	760	24	736	197	4	193	541	18	523	22	2	20
New Kent	20		20	9		9	8		8	3		3
Powhatan	42		42	19		19	22		22	1		1
Richmond City	1,554	77	1,477	731	20	711	738	52	686	85	5	80
District 16	503	11	492	294	6	288	195	5	190	14		14
Caroline	98	3	95	56	2	54	39	1	38	3		3
King George	50	1	49	36	1	35	13		13	1		1
Spotsylvania	116	2	114	82	1	81	33	1	32	1		1
Stafford	154	4	150	82	2	80	64	2	62	8		8
Fredericksburg	85	1	84	38		38	46	1	45	1		1
District 17	181	7	174	122	3	119	56	4	52	3		2
Lancaster	41	3	38	30	2	28	11	1	10			
Northumberland	45	1	44	30		30	15	1	14			
Richmond	32	1	31	19		19	13	1	12			
Westmoreland	63	2	61	43	1	42	17	1	16	3		3
District 18	238	3	235	122	1	121	112	1	111	4	1	3
Essex	58	2	56	31		31	25	1	24	2	1	1
Gloucester	84		84	46		46	38		38			
King and Queen	19	1	18	13	1	12	5		5	1		1
King William	29		29	6		6	22		22	1		1
Mathews	22		22	8		8	14		14			
Middlesex	26		26	18		18	8		8			
District 19	900	44	856	466	16	450	386	27	359	48	1	47
Dinwiddie	84	3	81	45	2	43	36	1	35	3		3
Greensville	80	3	77	51	1	50	24	1	23	5	1	4
Prince George	109	4	105	46	1	45	56	3	53	7		7
Surry	28	1	27	18		18	10	1	9			
Sussex	54	1	53	34	1	33	19		19	1		1
Colonial Heights	56		56	16		16	37		37	3		3
Emporia	41	3	38	30	2	28	8	1	7	3		3
Hopewell	138	7	131	69	1	68	59	6	53	10		10
Petersburg	310	22	288	157	8	149	137	14	123	16		16
District 20	4,640	152	4,496	2,620	56	2,564	1,840	87	1,753	188	9	179
Isle of Wight	112	5	107	63	2	61	43	3	40	6		6
Southampton	77	2	75	42	1	41	34	1	33	1		1
Chesapeake	668	14	654	378	2	376	268	11	257	22	1	21
Franklin City	42	4	38	24	1	23	17	3	14	1		1
Norfolk	1,684	46	1,638	1,046	21	1,025	559	23	536	79	2	77
Portsmouth	709	37	672	442	16	426	239	17	222	28	4	24
Suffolk	247	12	235	156	6	150	76	5	71	15	1	14
Virginia Beach	1,109	32	1,077	469	7	462	604	24	580	36	1	35
District 21	1,803	53	1,750	905	15	890	864	38	826	34		34
James City Co.	90	1	89	61	1	60	26		26	3		3
York	109		109	38		38	69		69	2		2
Hampton	657	15	642	298	4	294	339	11	328	20		20
Newport News	827	31	796	472	9	463	348	22	326	7		7
Poquoson	32	1	31	9		9	22	1	21	1		1
Williamsburg	88	5	83	27	1	26	60	4	56	1		1
District 22	269	12	257	196	11	185	55	1	54	18		18
Accomack	172	9	163	120	8	112	39	1	38	13		13
Northampton	97	3	94	76	3	73	16		16	5		5
Unknown	4		4				3		3	1		1

TABLE 28 - NATURAL FETAL DEATHS BY LENGTH OF GESTATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Natural Fetal Deaths			Length of Gestation					
				Under 20 Weeks			20 Weeks and Over		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	6,205	4,420	1,785	5,319	3,890	1,429	886	530	356
District 1	56	53	3	40	37	3	16	16	
Lee	12	12		4	4		8	8	
Scott	3	3					3	3	
Wise	40	37	3	35	32	3	5	5	
Norton	1	1		1	1				
District 2	133	132	1	113	112	1	20	20	
Buchanan	47	47		40	40		7	7	
Dickenson	28	28		24	24		4	4	
Russell	22	22		19	19		3	3	
Tazewell	36	35	1	30	29	1	6	6	
District 3	160	154	6	135	131	4	25	23	2
Bland	2	2		2	2				
Carroll	28	28		24	24		4	4	
Grayson	20	17	3	15	14	1	5	3	2
Smyth	26	25	1	18	17	1	8	8	
Washington	37	35	2	36	34	2	1	1	
Wythe	35	35		30	30		5	5	
Bristol	1	1		1	1				
Galax	11	11		9	9		2	2	
District 4	93	92	1	81	80	1	12	12	
Floyd	11	11		9	9		2	2	
Giles	13	13		12	12		1	1	
Montgomery	46	45	1	39	38	1	7	7	
Pulaski	23	23		21	21		2	2	
Radford									
District 5	370	310	60	338	286	52	32	24	8
Alleghany	11	10	1	10	9	1	1	1	
Botetourt	30	28	2	28	26	2	2	2	
Craig	4	4		4	4				
Roanoke	96	95	1	88	87	1	8	8	
Clifton Forge	6	5	1	6	5	1			
Covington	2	2		2	2				
Roanoke City	184	133	51	167	123	44	17	10	7
Salem	37	33	4	33	30	3	4	3	1
District 6	170	162	8	124	118	6	46	44	2
Augusta	53	51	2	37	35	2	16	16	
Bath	5	4	1	5	4	1			
Highland	1	1					1	1	
Rockbridge	3	3		1	1		2	2	
Rockingham	52	52		39	39		13	13	
Buena Vista	2	2		1	1		1	1	
Harrisonburg	18	17	1	13	13		5	4	1
Lexington	2	1	1	1	1		1		1
Staunton	23	20	3	22	19	3	1	1	
Waynesboro	11	11		5	5		6	6	
District 7	139	132	7	120	114	6	19	18	1
Clarke	7	6	1	7	6	1			
Frederick	41	40	1	35	34	1	6	6	
Page	22	22		18	18		4	4	
Shenandoah	17	17		15	15		2	2	
Warren	30	30		26	26		4	4	
Winchester	22	17	5	19	15	4	3	2	1
District 8	1,184	1,031	153	1,052	920	132	132	111	21
Arlington	73	58	15	69	54	15	4	4	
Fairfax	593	524	69	519	460	59	74	64	10
Loudoun	55	53	2	50	48	2	5	5	
Prince William	277	249	28	246	223	23	31	26	5
Alexandria	114	81	33	103	74	29	11	7	4
Fairfax City	10	8	2	10	8	2			
Falls Church	14	13	1	10	10		4	3	1
Manassas	38	35	3	35	33	2	3	2	1
Manassas Park	10	10		10	10				
District 9	106	93	13	87	77	10	19	16	3
Culpeper	13	11	2	9	8	1	4	3	1
Fauquier	55	49	6	51	46	5	4	3	1
Madison	6	6		4	4		2	2	
Orange	25	21	4	17	14	3	8	7	1
Rappahannock	7	6	1	6	5	1	1	1	
District 10	106	83	23	88	72	16	18	11	7
Albemarle	42	37	5	36	32	4	6	5	1
Fluvanna	11	9	2	10	8	2	1	1	
Greene	4	3	1	3	3		1		1
Louisa	13	9	4	11	9	2	2		2
Nelson	13	9	4	10	7	3	3	2	1
Charlottesville	23	16	7	18	13	5	5	3	2
District 11	272	198	74	245	182	63	27	16	11
Amherst	49	39	10	43	35	8	6	4	2
Appomattox	18	11	7	15	9	6	3	2	1
Bedford	43	35	8	38	32	6	5	3	2
Campbell	44	32	12	38	29	9	6	3	3
Bedford City	4	2	2	3	2	1	1		1
Lynchburg	114	79	35	108	75	33	6	4	2

(continued)

TABLE 28 - NATURAL FETAL DEATHS BY LENGTH OF GESTATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Natural Fetal Deaths			Length of Gestation					
				Under 20 Weeks			20 Weeks and Over		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	6,205	4,420	1,785	5,319	3,890	1,429	886	530	356
District 12	263	176	87	212	150	62	51	26	25
Franklin	63	50	13	59	47	12	4	3	1
Henry	53	40	13	48	38	10	5	2	3
Patrick	16	15	1	15	14	1	1	1	
Pittsylvania	67	40	27	53	33	20	14	7	7
Danville	57	28	29	35	17	18	22	11	11
Martinsville	7	3	4	2	1	1	5	2	3
District 13	145	61	84	119	53	66	26	8	18
Brunswick	27	12	15	22	12	10	5		5
Halifax	52	23	29	41	19	22	11	4	7
Mecklenburg	54	19	35	45	16	29	9	3	6
South Boston	12	7	5	11	6	5	1	1	
District 14	111	60	51	90	54	36	21	6	15
Amelia	12	5	7	10	5	5	2		2
Buckingham	13	9	4	9	8	1	4	1	3
Charlotte	24	15	9	19	14	5	5	1	4
Cumberland	4	3	1	3	2	1	1	1	
Lunenburg	14	4	10	13	4	9	1		1
Nottoway	16	8	8	14	7	7	2	1	1
Prince Edward	28	16	12	22	14	8	6	2	4
District 15	1,008	592	416	882	541	341	126	51	75
Charles City Co.	9	1	8	8	1	7	1		1
Chesterfield	235	196	39	217	185	32	18	11	7
Goochland	15	9	6	14	9	5	1		1
Hanover	49	40	9	42	36	6	7	4	3
Henrico	270	202	68	233	179	54	37	23	14
New Kent	10	6	4	9	5	4	1	1	
Powhatan	18	18		14	14		4	4	
Richmond City	402	120	282	345	112	233	57	8	49
District 16	114	94	20	104	87	17	10	7	3
Caroline	18	7	11	16	7	9	2		2
King George	7	4	3	6	4	2	1		1
Spotsylvania	32	30	2	28	26	2	4	4	
Stafford	41	39	2	39	37	2	2	2	
Fredericksburg	16	14	2	15	13	2	1	1	
District 17	24	14	10	16	10	6	8	4	4
Lancaster	3	2	1	2	2		1		1
Northumberland	5	1	4	4	1	3	1		1
Richmond	4	4		2	2		2	2	
Westmoreland	12	7	5	8	5	3	4	2	2
District 18	47	32	15	35	28	7	12	4	8
Essex	10	7	3	9	7	2	1		1
Gloucester	15	11	4	11	9	2	4	2	2
King and Queen	10	5	5	6	4	2	4	1	3
King William	7	5	2	5	4	1	2	1	1
Mathews	3	2	1	2	2		1		1
Middlesex	2	2		2	2				
District 19	250	124	126	225	116	109	25	8	17
Dinwiddie	24	15	9	21	13	8	3	2	1
Greensville	13	4	9	12	3	9	1	1	
Prince George	34	20	14	31	20	11	3		3
Surry	3	1	2	3	1	2			
Sussex	10	1	9	8	1	7	2		2
Colonial Heights	23	23		22	22		1	1	
Emporia	7	4	3	6	4	2	1		1
Hopewell	47	35	12	41	31	10	6	4	2
Petersburg	89	21	68	81	21	60	8		8
District 20	1,098	651	447	927	575	352	171	76	95
Isle of Wight	20	11	9	16	9	7	4	2	2
Southampton	10	2	8	5	2	3	5		5
Chesapeake	126	73	53	94	57	37	32	16	16
Franklin City	4	4		3	3		1	1	
Norfolk	416	229	187	362	205	157	54	24	30
Portsmouth	128	42	86	104	38	66	24	4	20
Suffolk	93	36	57	78	32	46	15	4	11
Virginia Beach	301	254	47	265	229	36	36	25	11
District 21	283	151	132	226	125	101	57	26	31
James City Co.	22	8	14	18	7	11	4	1	3
York	13	7	6	12	6	6	1	1	
Hampton	126	64	62	107	56	51	19	8	11
Newport News	105	58	47	75	43	32	30	15	15
Poquoson	5	5		5	5				
Williamsburg	12	9	3	9	8	1	3	1	2
District 22	70	22	48	59	21	38	11	1	10
Accomack	45	12	33	39	11	28	6	1	5
Northampton	25	10	15	20	10	10	5		5
Unknown	3	3		1	1		2	2	

TABLE 29 - RESIDENT NATURAL FETAL DEATHS BY AGE OF MOTHER BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unknown
STATE OF VIRGINIA	6,205	38	892	1,807	1,801	1,065	436	128	12	26
District 1	56		8	14	10	13	5	5		1
Lee	12		1	1	3	4	1	1		1
Scott	3			1		1		1		
Wise	40		7	12	6	8	4	3		
Norton	1				1					
District 2	133		30	46	34	12	7	2		2
Buchanan	47		10	19	10	3	3			2
Dickenson	28		7	9	10	1		1		
Russell	22		4	10	6		2			
Tazewell	36		9	8	8	8	2	1		
District 3	160		34	42	48	23	10	2		1
Bland	2				1		1			
Carroll	28		11	8	7	1	1			
Grayson	20		4	5	8	3				
Smyth	26		6	5	7	4	3	1		
Washington	37		6	12	10	6	3			
Wythe	35		6	7	11	7	2	1		1
Bristol	1					1				
Galax	11		1	5	4	1				
District 4	93	1	15	30	20	16	7	2	2	
Floyd	11			1	6	1	3			
Giles	13		2	7	1	3				
Montgomery	46		8	14	7	11	4	1	1	
Pulaski	23	1	5	8	6	1		1	1	
Radford										
District 5	370	2	39	116	112	71	22	7	1	
Alleghany	11		1	2	6	1		1		
Botetourt	30		4	13	4	7	1	1		
Craig	4		2		1	1				
Roanoke	96		8	24	31	25	6	1	1	
Clifton Forge	6			4	1	1				
Covington	2			1			1			
Roanoke City	184	2	16	58	60	31	13	4		
Salem	37		8	14	9	5	1			
District 6	170		33	52	40	33	9	3		
Augusta	53		12	15	12	8	4	2		
Bath	5		2	2		1				
Highland	1					1				
Rockbridge	3		1	1	1					
Rockingham	52		8	20	16	7	1			
Buena Vista	2			1			1			
Harrisonburg	18		4	4	3	5	2			
Lexington	2		1					1		
Staunton	23		3	7	7	5	1			
Waynesboro	11		2	2	1	6				
District 7	139	1	24	41	40	17	11	4		1
Clarke	7		4	3						
Frederick	41	1	5	9	13	6	5	2		
Page	22		5	7	5	2	2			1
Shenandoah	17		2	6	4	4	1			
Warren	30		5	10	10	3	1	1		
Winchester	22		3	6	8	2	2	1		
District 8	1,184	5	120	285	354	257	124	32	3	4
Arlington	73		6	14	28	13	8	3	1	
Fairfax	593	2	48	124	174	148	76	17	1	3
Loudoun	55		8	10	16	14	4	3		
Prince William	277	2	30	81	81	48	27	7		1
Alexandria	114	1	17	35	33	21	6		1	
Fairfax City	10		3	1	5	1				
Falls Church	14			3	4	5	1	1		
Manassas	38		7	13	12	4	2			
Manassas Park	10		1	4	1	3		1		
District 9	106		13	31	37	18	7			
Culpeper	13		4	3	4	1	1			
Fauquier	55		5	14	19	13	4			
Madison	6		3	1	2					
Orange	25		1	11	8	3	2			
Rappahannock	7			2	4	1				
District 10	106	1	7	32	38	18	7	3		
Albemarle	42	1	4	8	19	8	2			
Fluvanna	11			7	4					
Greene	4			2	2					
Louisa	13		1	2	4	1	3	2		
Nelson	13		1	5	3	3		1		
Charlottesville	23		1	8	6	6	2			
District 11	272	4	48	73	75	51	15	4	1	1
Amherst	49		7	15	11	10	3	3		
Appomattox	18		5	2	5	4	1		1	
Bedford	43		8	8	15	7	3	1		1
Campbell	44		10	12	12	9	1			
Bedford City	4		2	1	1					
Lynchburg	114	4	16	35	31	21	7			

(continued)

TABLE 29 - RESIDENT NATURAL FETAL DEATHS BY AGE OF MOTHER BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unknown
STATE OF VIRGINIA	6,205	38	892	1,807	1,801	1,065	436	128	12	26
District 12	263	5	46	73	69	38	20	10		3
Franklin	63		13	18	17	7	3	4		1
Henry	53		10	12	17	8	3	1		2
Patrick	16		4	5	2	5				
Pittsylvania	67	2	9	25	16	6	8	1		
Danville	57	1	10	12	14	11	6	3		
Martinsville	7	2			3	1		1		
District 13	145		22	46	38	25	12	2		
Brunswick	27		5	7	11	4				
Halifax	52		7	18	12	11	3	1		
Mecklenburg	54		7	15	14	9	8	1		
South Boston	12		3	6	1	1	1			
District 14	111	1	23	36	21	16	8	3	1	2
Amelia	12		3	4	3		1	1		
Buckingham	13		3	5	4	1				
Charlotte	24		7	5	3	5	3		1	
Cumberland	4		2	2						
Lunenburg	14	1	1	7	2		2	1		
Nottoway	16		3	4	4	3				2
Prince Edward	28		4	9	5	7	2	1		
District 15	1,008	7	131	276	317	186	72	13	2	4
Charles City Co.	9		2	1	3	1	1	1		
Chesterfield	235		21	48	90	50	21	4	1	
Goochland	15		1	5	7	1		1		
Hanover	49		3	8	22	10	6			
Henrico	270	2	20	82	83	60	21	2		
New Kent	10		3	1	1	4	1			
Powhatan	18		1	5	6	3	2	1		
Richmond City	402	5	80	126	105	57	20	4	1	4
District 16	114		14	32	36	21	6	4		1
Caroline	18		3	6	7	1				1
King George	7		1	2	1	2	1			
Spotsylvania	32		1	7	12	8	3	1		
Stafford	41		8	11	12	6	1	3		
Fredericksburg	16		1	6	4	4	1			
District 17	24		3	10	6	5				
Lancaster	3			2	1					
Northumberland	5			3	2					
Richmond	4				1	3				
Westmoreland	12		3	5	2	2				
District 18	47	1	3	16	14	11	2			
Essex	10	1	1	2	4	2				
Gloucester	15			9	2	4				
King and Queen	10		1	3	3	2	1			
King William	7		1	1	1	3	1			
Mathews	3			1	2					
Middlesex	2				2					
District 19	250	1	47	73	71	37	15	5		1
Dinwiddie	24		3	4	9	7	1			
Greensville	13	1	4	3	4	1				
Prince George	34		7	13	6	6	1	1		
Surry	3			1	1	1				
Sussex	10		1	4	3	2				
Colonial Heights	23		3	3	8	5	3	1		
Emporia	7		3	1	3					
Hopewell	47		10	19	10	4	2	1		1
Petersburg	89		16	25	27	11	8	2		
District 20	1,098	9	179	364	323	146	56	19	1	1
Isle of Wight	20		6	7	2	2	1	1	1	
Southampton	10		1	4	4		1			
Chesapeake	126	1	21	38	42	17	7			
Franklin City	4		1	1	1		1			
Norfolk	416	2	77	160	108	46	15	7		1
Portsmouth	128	4	24	47	29	18	4	2		
Suffolk	93	1	14	25	31	14	4	4		
Virginia Beach	201	1	35	82	106	49	23	5		
District 21	283		34	93	82	44	19	8		3
James City Co.	22		3	7	8	3		1		
York	13		2	2	5	1	2			1
Hampton	126		20	40	36	16	9	5		
Newport News	105		7	40	28	20	7	1		2
Poquoson	5		1		2	1		1		
Williamsburg	12		1	4	3	3	1			
District 22	70		18	27	16	6	2		1	
Accomack	45		13	16	13	2			1	
Northampton	25		5	11	3	4	2			
Unknown	3		1			1				1

TABLE 30 - INDUCED ABORTIONS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	All Induced Abortions			Illegitimate			Percent Illegitimate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	29,455	20,453	9,002	23,340	16,096	7,244	79.2	78.7	80.5
District 1	89	87	2	61	59	2	68.5	67.8	100.0
Lee	10	10		7	7		70.0	70.0	
Scott	5	5		3	3		60.0	60.0	
Wise	62	60	2	41	39	2	66.1	65.0	100.0
Norton	12	12		10	10		83.3	83.3	
District 2	143	135	8	110	103	7	76.9	76.3	87.5
Buchanan	32	32		25	25		78.1	78.1	
Dickenson	12	11	1	6	5	1	50.0	45.5	100.0
Russell	17	17		11	11		64.7	64.7	
Tazewell	82	75	7	68	62	6	82.9	82.7	85.7
District 3	371	348	23	274	253	21	73.9	72.7	91.3
Bland	7	7		3	3		42.9	42.9	
Carroll	36	36		28	28		77.8	77.8	
Grayson	31	29	2	21	20	1	67.7	69.0	50.0
Smyth	85	75	10	64	54	10	75.3	72.0	100.0
Washington	72	71	1	52	51	1	72.2	71.8	100.0
Wythe	82	80	2	59	57	2	72.0	71.3	100.0
Bristol	37	34	3	33	30	3	89.2	88.2	100.0
Galax	21	16	5	14	10	4	66.7	62.5	80.0
District 4	797	758	39	681	651	30	85.4	85.9	76.9
Floyd	25	24	1	15	14	1	60.0	58.3	100.0
Giles	52	51	1	41	40	1	78.8	78.4	100.0
Montgomery	456	438	18	393	381	12	86.2	87.0	66.7
Pulaski	112	101	11	90	81	9	80.4	80.2	81.8
Radford	152	144	8	142	135	7	93.4	93.8	87.5
District 5	1,353	1,089	264	1,110	805	225	82.0	81.3	85.2
Alleghany	40	33	7	33	27	6	82.5	81.8	85.7
Botetourt	65	57	8	52	45	7	80.0	78.9	87.5
Craig	10	10		9	9		90.0	90.0	
Roanoke	346	336	10	280	271	9	80.9	80.7	90.0
Clifton Forge	21	16	5	17	12	5	81.0	75.0	100.0
Covington	47	36	11	36	26	10	76.6	72.2	90.9
Roanoke City	690	473	217	565	382	183	81.9	80.8	84.3
Salem	134	128	6	118	113	5	88.1	88.3	83.3
District 6	675	631	44	557	522	35	82.5	82.7	79.5
Augusta	228	212	16	184	170	14	80.7	80.2	87.5
Bath	17	17		13	13		76.5	76.5	
Highland	4	4		1	1		25.0	25.0	
Rockbridge	55	54	1	47	46	1	85.5	85.2	100.0
Rockingham	212	203	9	175	168	7	82.5	82.8	77.8
Buena Vista	23	23		18	18		78.3	78.3	
Harrisonburg	50	48	2	47	46	1	94.0	95.8	50.0
Lexington	12	10	2	11	9	2	91.7	90.0	100.0
Staunton	44	38	6	36	32	4	81.8	84.2	66.7
Waynesboro	30	22	8	25	19	6	83.3	86.4	75.0
District 7	301	277	24	219	198	21	72.8	71.5	87.5
Clarke	21	16	5	20	16	4	95.2	100.0	80.0
Frederick	102	95	7	69	63	6	67.6	66.3	85.7
Page	33	31	2	25	23	2	75.8	74.2	100.0
Shenandoah	55	54	1	38	38		69.1	70.4	0.0
Warren	54	49	5	40	35	5	74.1	71.4	100.0
Winchester	36	32	4	27	23	4	75.0	71.9	100.0
District 8	6,089	5,377	712	4,751	4,210	541	78.0	78.3	76.0
Arlington	736	605	131	576	477	99	78.3	78.8	75.6
Fairfax	3,393	3,130	263	2,659	2,467	192	78.4	78.8	73.0
Loudoun	237	217	20	189	175	14	79.7	80.6	70.0
Prince William	758	684	74	553	502	51	73.0	73.4	68.9
Alexandria	605	418	187	491	337	154	81.2	80.6	82.4
Fairfax City	183	179	4	155	151	4	84.7	84.4	100.0
Falls Church	116	91	25	88	66	22	75.9	72.5	88.0
Manassas	58	52	6	38	35	3	65.5	67.3	50.0
Manassas Park	3	1	2	2		2	66.7	0.0	100.0
District 9	359	285	74	276	213	63	76.9	74.7	85.1
Culpeper	91	72	19	72	56	16	79.1	77.8	84.2
Fauquier	128	103	25	100	78	22	78.1	75.7	88.0
Madison	37	30	7	30	24	6	81.1	80.0	85.7
Orange	84	61	23	61	42	19	72.6	68.9	82.6
Rappahannock	19	19		13	13		68.4	68.4	
District 10	808	641	167	638	508	130	79.0	79.3	77.8
Albemarle	354	309	45	288	252	36	81.4	81.6	80.0
Fluvanna	43	29	14	29	20	9	67.4	69.0	64.3
Greene	30	28	2	21	20	1	70.0	71.4	50.0
Louisa	80	47	33	54	29	25	67.5	61.7	75.8
Nelson	54	48	6	38	32	6	70.4	66.7	100.0
Charlottesville	247	180	67	208	155	53	84.2	86.1	79.1
District 11	787	563	224	607	439	168	77.1	78.0	75.0
Amherst	104	73	31	79	58	21	76.0	79.5	67.7
Appomattox	27	17	10	19	10	9	70.4	58.8	90.0
Bedford	95	82	13	69	59	10	72.6	72.0	76.9
Campbell	144	109	35	105	81	24	72.9	74.3	68.6
Bedford City	21	16	5	17	12	5	81.0	75.0	100.0
Lynchburg	396	266	130	318	219	99	80.3	82.3	76.2

(continued)

TABLE 30 - INDUCED ABORTIONS BY RACE AND LEGITIMACY STATUS WITH PERCENT ILLEGITIMATE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	All Induced Abortions			Illegitimate			Percent Illegitimate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	29,455	20,453	9,002	23,340	16,096	7,244	79.2	78.7	80.5
District 12	684	415	269	526	310	216	76.9	74.7	80.3
Franklin	124	97	27	98	75	23	79.0	77.3	85.2
Henry	190	122	68	145	95	50	76.3	77.9	73.5
Patrick	15	12	3	10	9	1	66.7	75.0	33.3
Pittsylvania	154	82	72	116	55	61	75.3	67.1	84.7
Danville	119	54	65	90	39	51	75.6	72.2	78.5
Martinsville	82	48	34	67	37	30	81.7	77.1	88.2
District 13	321	113	208	238	82	156	74.1	72.6	75.0
Brunswick	79	14	65	59	9	50	74.7	64.3	76.9
Halifax	115	54	61	78	38	40	67.8	70.4	65.6
Mecklenburg	104	36	68	85	28	57	81.7	77.8	83.8
South Boston	23	9	14	16	7	9	69.6	77.8	64.3
District 14	430	196	234	323	151	172	75.1	77.0	73.5
Amelia	47	22	25	33	15	18	70.2	68.2	72.0
Buckingham	25	15	10	20	12	8	80.0	80.0	80.0
Charlotte	51	17	34	34	12	22	66.7	70.6	64.7
Cumberland	18	8	10	8	4	4	44.4	50.0	40.0
Lunenburg	55	20	35	41	16	25	74.5	80.0	71.4
Nottoway	96	38	58	77	28	49	80.2	73.7	84.5
Prince Edward	138	76	62	110	64	46	79.7	84.2	74.2
District 15	5,955	3,315	2,640	4,822	2,620	2,202	81.0	79.0	83.4
Charles City Co.	45	8	37	40	7	33	88.9	87.5	89.2
Chesterfield	932	791	141	686	584	102	73.6	73.8	72.3
Goochland	70	40	30	51	30	21	72.9	75.0	70.0
Hanover	292	224	68	215	165	50	73.6	73.7	73.5
Henrico	1,683	1,216	467	1,325	983	342	78.7	80.8	73.2
New Kent	36	20	16	26	13	13	72.2	65.0	81.3
Powhatan	60	42	18	39	24	15	65.0	57.1	83.3
Richmond City	2,837	974	1,863	2,440	814	1,626	86.0	83.6	87.3
District 16	520	388	132	372	282	90	71.5	72.7	68.2
Caroline	113	49	64	72	29	43	63.7	59.2	67.2
King George	33	22	11	23	16	7	69.7	72.7	63.6
Spotsylvania	100	81	19	68	55	13	68.0	67.9	68.4
Stafford	146	133	13	105	96	9	71.9	72.2	69.2
Fredericksburg	128	103	25	104	86	18	81.3	83.5	72.0
District 17	163	85	78	124	62	62	76.1	72.9	79.5
Lancaster	38	18	20	31	15	16	81.6	83.3	80.0
Northumberland	35	20	15	30	17	13	85.7	85.0	86.7
Richmond	30	16	14	23	12	11	76.7	75.0	78.6
Westmoreland	60	31	29	40	18	22	66.7	58.1	75.9
District 18	284	186	98	211	138	73	74.3	74.2	74.5
Essex	60	35	25	43	26	17	71.7	74.3	68.0
Gloucester	89	67	22	64	47	17	71.9	70.1	77.3
King and Queen	26	11	15	18	9	9	69.2	81.8	60.0
King William	53	23	30	45	17	28	84.9	73.9	93.3
Mathews	30	27	3	24	22	2	80.0	81.5	66.7
Middlesex	26	23	3	17	17		65.4	73.9	0.0
District 19	1,127	511	616	902	393	509	80.0	76.9	82.6
Dinwiddie	116	58	58	88	39	49	75.9	67.2	84.5
Greensville	82	25	57	62	19	43	75.6	76.0	75.4
Prince George	135	86	49	101	65	36	74.8	75.6	73.5
Surry	36	8	28	26	5	21	72.2	62.5	75.0
Sussex	56	17	39	47	11	36	83.9	64.7	92.3
Colonial Heights	88	86	2	67	67		76.1	77.9	0.0
Emporia	16	5	11	13	5	8	81.3	100.0	72.7
Hopewell	163	108	55	131	87	44	80.4	80.6	80.0
Petersburg	435	118	317	367	95	272	84.4	80.5	85.8
District 20	5,488	3,505	1,983	4,404	2,811	1,593	80.2	80.2	80.3
Isle of Wight	84	40	44	63	32	31	75.0	80.0	70.5
Southampton	65	23	42	59	18	41	90.8	78.3	97.6
Chesapeake	666	405	261	541	326	215	81.2	80.5	82.4
Franklin City	35	21	14	29	16	13	82.9	76.2	92.9
Norfolk	1,944	1,114	830	1,546	891	655	79.5	80.0	78.9
Portsmouth	729	311	418	596	246	350	81.8	79.1	83.7
Suffolk	238	91	147	185	65	120	77.7	71.4	81.6
Virginia Beach	1,727	1,500	227	1,385	1,217	168	80.2	81.1	74.0
District 21	2,524	1,435	1,089	1,993	1,119	874	79.0	78.0	80.3
James City Co.	66	37	29	49	23	26	74.2	62.2	89.7
York	129	109	20	102	89	13	79.1	81.7	65.0
Hampton	1,031	517	514	821	402	419	79.6	77.8	81.5
Newport News	1,084	611	473	843	472	371	77.8	77.3	78.4
Poquoson	29	29		26	26		89.7	89.7	
Williamsburg	185	132	53	152	107	45	82.2	81.1	84.9
District 22	174	102	72	131	79	52	75.3	77.5	72.2
Accomack	126	75	51	95	58	37	75.4	77.3	72.5
Northampton	48	27	21	36	21	15	75.0	77.8	71.4
Unknown	13	11	2	10	8	2			

TABLE 31
RESIDENT INDUCED ABORTIONS BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
STATE OF VIRGINIA	29,455	380	9,519	10,361	5,071	2,488	1,195	360	32	49
District 1	89	1	35	28	15	7	2			1
Lee	10	1	4	3	1	1				
Scott	5		2	1	1	1				
Wise	62		24	18	12	5	2			1
Norton	12		5	6	1					
District 2	143	3	48	47	19	15	8	3		
Buchanan	32	1	12	12	2	1	4			
Dickenson	12		2	3	5	1		1		
Russell	17		6	2	4	4	1			
Tazewell	82	2	28	30	8	9	3	2		
District 3	371	6	147	112	48	36	16	4		2
Bland	7		4	1		1		1		
Carroll	36		19	9	4	3		1		
Grayson	31		11	8	4	4	3	1		
Smyth	85	1	28	30	15	8	3			
Washington	72	2	26	22	10	8	1	1		2
Wythe	82	1	35	19	9	11	7			
Bristol	37		17	14	4	1	1			
Galax	21	2	7	9	2		1			
District 4	797	2	292	356	87	36	21	2	1	
Floyd	25		9	6	8	1			1	
Giles	52		17	13	16	5		1		
Montgomery	456	1	156	226	40	18	14	1		
Pulaski	112	1	46	38	15	9	3			
Radford	152		64	73	8	3	4			
District 5	1,353	14	460	461	226	124	47	18	2	1
Alleghany	40		13	17	5	2	2	1		
Botetourt	65		21	22	9	6	4	2	1	
Craig	10	1	5	2	2					
Roanoke	346	3	131	102	60	30	14	5		1
Clifton Forge	21		6	11	3	1				
Covington	47	1	18	19	6		1	2		
Roanoke City	690	8	209	245	120	79	21	7	1	
Salem	134	1	57	43	21	6	5	1		
District 6	675	10	262	246	79	49	20	9		
Augusta	228	4	97	75	27	15	7	3		
Bath	17		6	6	3	1	1			
Highland	4			2		2				
Rockbridge	55	1	17	18	9	5	2	3		
Rockingham	212	3	78	82	23	14	10	2		
Buena Vista	23		13	3	4	3				
Harrisonburg	50		19	26	3	2				
Lexington	12		4	3	3	2				
Staunton	44		17	20	2	5				
Waynesboro	30	2	11	11	5			1		
District 7	301	2	106	104	40	24	16	6		3
Clarke	21		7	10	3	1				
Frederick	102		30	41	9	13	6	2		1
Page	33	2	11	12	3	3	1	1		
Shenandoah	55		25	12	11	3	3	1		
Warren	54		22	16	8	3	3	2		
Winchester	36		11	13	6	1	3			2
District 8	6,089	46	1,970	2,048	1,096	550	266	86	10	17
Arlington	736	3	179	258	179	83	24	4	2	4
Fairfax	3,393	25	1,136	1,132	565	298	163	56	7	11
Loudoun	237	3	98	64	41	19	9	3		
Prince William	758	7	281	253	112	60	33	11		1
Alexandria	605	5	150	217	136	64	25	6	1	1
Fairfax City	183	1	76	61	25	10	7	3		
Falls Church	116	2	28	41	28	12	3	2		
Manassas	58		21	21	9	4	2	1		
Manassas Park	3		1	1	1					
District 9	359	5	142	98	58	30	19	5		2
Culpeper	91		34	33	16	5	2			1
Fauquier	128	1	52	37	18	9	7	4		
Madison	37	1	21	4	7	1	3			
Orange	84	3	27	21	11	13	7	1		1
Rappahannock	19		8	3	6	2				
District 10	808	9	249	280	145	82	28	12	2	1
Albemarle	354	4	108	123	67	34	14	2	1	1
Fluvanna	43		12	15	10	3	2		1	
Greene	30		14	8	3	5				
Louisa	80		25	23	15	11	2	4		
Nelson	54		22	8	11	5	5	3		
Charlottesville	247	5	68	103	39	24	5	3		
District 11	787	17	250	265	139	81	24	10		1
Amherst	104		30	32	25	12	1	4		
Appomattox	27	2	11	8	1	3	2			
Bedford	95	2	32	32	14	12		3		
Campbell	144	5	51	46	26	9	5	1		1
Bedford City	21	1	9	6	5					
Lynchburg	396	7	117	141	68	45	16	2		

(continued)

TABLE 31
RESIDENT INDUCED ABORTIONS BY AGE OF MOTHER BY PLANNING DISTRICT
AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Total	Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
STATE OF VIRGINIA	29,455	380	9,519	10,361	5,071	2,488	1,195	360	32	49
District 12	684	6	258	228	108	40	35	8		1
Franklin	124	1	55	36	18	5	5	4		
Henry	190	2	79	61	18	16	13	1		
Patrick	15		7	6	1	1				
Pittsylvania	154	2	51	55	26	13	5	2		
Danville	119	1	36	42	28	4	6	1		1
Martinsville	82		30	28	17	1	6			
District 13	321	6	108	94	53	40	15	3	2	
Brunswick	79	1	26	23	16	6	6	1		
Halifax	115	2	41	33	20	15	2	1	1	
Mecklenburg	104	3	32	36	14	13	5	1		
South Boston	23		9	2	3	6	2		1	
District 14	430	11	137	145	69	33	28	6		1
Amelia	47	1	19	12	4	3	8			
Buckingham	25		6	9	4	4	2			
Charlotte	51	1	13	14	13	3	5	1		1
Cumberland	18		4	4	4	4	2			
Lunenburg	55	1	19	16	11	6	1	1		
Nottoway	96	7	32	31	11	10	3	2		
Prince Edward	138	1	44	59	22	3	7	2		
District 15	5,955	79	1,707	2,134	1,164	535	265	61	5	5
Charles City Co.	45	2	18	16	7		2			
Chesterfield	932	6	318	264	178	90	64	12		
Goochland	70	1	20	25	11	5	5	3		
Hanover	292		112	101	38	25	11	4		1
Henrico	1,683	18	523	577	293	154	87	26	2	3
New Kent	36		8	14	5	5	1	2		1
Powhatan	60		22	16	10	9	2	1		
Richmond City	2,837	52	686	1,121	622	247	93	13	3	
District 16	520	5	190	159	87	54	24	1		
Caroline	113	1	38	34	25	10	5			
King George	33		13	12	5	3				
Spotsylvania	100	1	32	35	11	11	9	1		
Stafford	146	2	62	33	25	18	6			
Fredericksburg	128	1	45	45	21	12	4			
District 17	163	4	52	58	27	10	7	5		
Lancaster	38	1	10	14	8	2		3		
Northumberland	35	1	14	12	6	2				
Richmond	30	1	12	12	2	1	2			
Westmoreland	60	1	16	20	11	5	5	2		
District 18	284	1	111	72	56	16	19	7	2	
Essex	60	1	24	11	17	1	4	2		
Gloucester	89		38	25	15	5	6			
King and Queen	26		5	10	5	1	3	2		
King William	53		22	16	5	4	3	2	1	
Mathews	30		14	7	5		3		1	
Middlesex	26		8	3	9	5		1		
District 19	1,127	27	359	389	199	89	47	13		4
Dinwiddie	116	1	35	51	16	5	6	1		1
Greensville	82	1	23	28	15	8	5	1		1
Prince George	135	3	53	47	19	7	3	3		
Surry	36	1	9	11	12		2	1		
Sussex	56		19	22	8	1	6			
Colonial Heights	88		37	23	14	11	3			
Emporia	16	1	7	3	4	1				
Hopewell	163	6	53	54	25	16	7	2		
Petersburg	435	14	123	150	86	40	15	5		2
District 20	5,488	87	1,753	2,014	962	420	177	64	7	4
Isle of Wight	84	3	40	24	5	6	5	1		
Southampton	65	1	33	17	13	1				
Chesapeake	666	11	257	201	108	50	29	7	3	
Franklin City	35	3	14	8	7	1	1		1	
Norfolk	1,944	23	536	796	370	148	48	21	1	1
Portsmouth	729	17	222	278	112	59	25	14	1	1
Suffolk	238	5	71	89	42	15	12	3		1
Virginia Beach	1,727	24	580	601	305	140	57	18	1	1
District 21	2,524	38	826	958	368	194	104	32	1	3
James City Co.	66		26	20	5	9	3	3		
York	129		69	37	11	4	6	1		1
Hampton	1,031	11	328	382	161	86	47	15	1	
Newport News	1,084	22	326	436	167	82	39	11		1
Poquoson	29	1	21	4	1		1	1		
Williamsburg	185	4	56	79	23	13	8	1		1
District 22	174	1	54	60	24	21	6	5		3
Accomack	126	1	38	42	18	19	4	3		1
Northampton	48		16	18	6	2	2	2		2
Unknown	13		3	5	2	2	1			

TABLE 32
RESIDENT NATURAL FETAL DEATHS, LENGTH OF GESTATION BY RACE BY CAUSE OF DEATH, VIRGINIA, 1979

Causes of Natural Fetal Deaths	Total			Length of Gestation								
				Less than 20 Weeks			20-27 Weeks			28 Weeks and Over		
	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh	Total	White	Nonwh
ALL CAUSES	6,205	4,420	1,785	5,319	3,890	1,429	413	220	193	473	310	163
Causes and Conditions in Mother	529	343	186	441	290	151	50	31	19	38	22	16
Hypertensive disorders (7600)	28	15	13	3	2	1	4	1	3	21	12	9
Diseases or infections (7601-7603)	4	2	2	2		2	2	2				
Injuries (7605)	3	3		1	1					2	2	
Other conditions unrelated to pregnancy (7606-7609)	3	3		1	1					2	2	
Incompetent cervix (7610)	22	14	8	9	6	3	12	7	5	1	1	
Premature rupture of membranes (7611)	49	31	18	13	9	4	26	18	8	10	4	6
Ectopic pregnancy (7614)	353	216	137	350	215	135	3	1	2			
Hydatidiform mole (7800)	8	5	3	8	5	3						
Blighted ovum (7801)	57	54	3	54	51	3	2	2		1	1	
Other complications (7613,7615)	2		2				1		1	1		1
Complications of Placenta, Cord, Membranes	305	199	106	186	70	36	44	26	18	155	103	52
Placenta praevia (7620)	17	10	7	5	4	1	5	2	3	7	4	3
Other placental separation and hemorrhage (7621)	143	92	51	61	45	16	25	12	13	57	35	22
Other abnormalities of placenta (7622)	73	47	26	29	16	13	3	1	2	41	30	11
Prolapsed cord (7624)	8	6	2	3	2	1	3	3		2	1	1
Other compression of umbilical cord (7625)	29	19	10	1		1	1	1		27	18	9
Other conditions of umbilical cord (7626)	29	24	5	3	3		6	6		20	15	5
Abnormalities of membranes (7627-7629)	6	1	5	4		4	1	1		1		1
Conditions in Fetus	239	161	78	81	59	22	74	39	35	84	63	21
Immaturity (764-765)	109	61	48	38	23	15	59	31	28	12	7	5
Intrauterine hypoxia and birth asphyxia (768)	72	58	14	30	27	3	9	5	4	33	26	7
Congenital anomalies (7802)	44	33	11	8	6	2	5	2	3	31	25	6
Other conditions in fetus (7700-7798)	14	9	5	5	3	2	1	1		8	5	3
Spontaneous Abortion (7618)	3,893	2,802	1,091	3,750	2,736	1,014	132	59	73	11	7	4
Ill defined and unknown causes (7799,7662,7638,7639)	1,239	915	324	941	735	206	113	65	48	185	115	70

TABLE 33 - NEONATAL DEATHS WITH RATES PER 1,000 LIVE BIRTHS BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Number			Rate		
	Total	White	Nonwh	Total	White	Nonwh
STATE OF VIRGINIA	835	530	305	10.9	9.3	15.1
District 1	27	26	1	17.6	17.3	35.7
Lee	5	5		13.9	14.0	0.0
Scott	5	4	1	17.5	14.2	333.3
Wise	13	13		15.9	16.3	0.0
Norton	4	4		59.7	62.5	0.0
District 2	25	25		11.1	11.3	0.0
Buchanan	2	2		3.3	3.3	0.0
Dickenson	3	3		9.0	9.0	0.0
Russell	11	11		23.4	23.6	0.0
Tazewell	9	9		10.8	11.0	0.0
District 3	31	30	1	14.6	14.5	18.5
Bland	2	2		29.0	29.0	
Carroll	1	1		3.7	3.8	0.0
Grayson	2	2		12.0	12.4	0.0
Smyth	5	5		12.5	12.8	0.0
Washington	12	12		19.7	20.0	0.0
Wythe	5	5		15.9	16.4	0.0
Bristol	4	3	1	18.1	14.7	58.8
Galax				0.0	0.0	0.0
District 4	21	19	2	14.0	13.2	35.1
Floyd	1	1		7.6	7.7	0.0
Giles	5	5		23.6	23.9	0.0
Montgomery	7	5	2	11.7	8.7	90.9
Pulaski	7	7		15.8	16.5	0.0
Radford	1	1		9.2	10.0	0.0
District 5	37	27	10	12.2	10.8	19.5
Alleghany	3	3		18.1	18.9	0.0
Botetourt	2	2		7.2	7.7	0.0
Craig				0.0	0.0	
Roanoke	8	7	1	10.6	9.7	28.6
Clifton Forge				0.0	0.0	0.0
Covington	1	1		9.8	9.8	0.0
Roanoke City	22	13	9	16.3	14.0	21.6
Salem	1	1		3.9	4.2	0.0
District 6	23	21	2	8.6	8.3	12.5
Augusta	4	4		5.8	6.0	0.0
Bath	2	2		22.0	24.4	0.0
Highland	1	1		17.9	18.2	0.0
Rockbridge	3	2	1	12.7	8.9	83.3
Rockingham	5	5		6.1	6.3	0.0
Buena Vista				0.0	0.0	0.0
Harrisonburg	2	2		11.0	12.0	0.0
Lexington				0.0	0.0	0.0
Staunton	5	4	1	18.7	17.2	28.6
Waynesboro	1	1		4.9	5.6	0.0
District 7	10	9	1	5.6	5.3	10.9
Clarke				0.0	0.0	0.0
Frederick	2	2		4.0	4.1	0.0
Page				0.0	0.0	0.0
Shenandoah	2	2		5.4	5.4	0.0
Warren	4	4		13.9	15.2	0.0
Winchester	2	1	1	8.3	4.7	35.7
District 8	103	81	22	6.6	6.2	8.8
Arlington	12	7	5	6.3	4.7	12.5
Fairfax	59	46	13	7.6	6.8	12.0
Loudoun	6	5	1	7.1	6.4	14.3
Prince William	14	13	1	5.3	5.6	3.3
Alexandria	8	6	2	5.5	6.7	3.6
Fairfax City	2	2		6.5	7.1	0.0
Falls Church	2	2		17.4	18.9	0.0
Manassas				0.0	0.0	0.0
Manassas Park				0.0	0.0	0.0
District 9	8	5	3	6.0	4.8	11.0
Culpeper	1		1	2.8	0.0	12.3
Fauquier	4	4		8.2	10.0	0.0
Madison	1	1		7.5	9.3	0.0
Orange	2		2	7.5	0.0	27.4
Rappahannock				0.0	0.0	0.0
District 10	20	14	6	10.4	9.4	14.2
Albemarle	8	7	1	11.4	11.5	10.4
Fluvanna	3	1	2	19.9	9.0	50.0
Greene				0.0	0.0	0.0
Louisa	2	1	1	7.7	5.9	11.1
Nelson				0.0	0.0	0.0
Charlottesville	7	5	2	14.0	14.0	14.1
District 11	40	26	14	15.6	13.5	22.2
Amherst	4	3	1	10.8	10.5	11.8
Appomattox	2	2		12.7	16.3	0.0
Bedford	7	5	2	15.6	13.0	30.8
Campbell	8	5	3	12.5	9.7	23.6
Bedford City	1		1	14.3	0.0	71.4
Lynchburg	18	11	7	20.5	19.3	22.8
District 12	44	27	17	14.3	13.1	16.6
Franklin	6	5	1	14.3	14.7	12.5
Henry	6	4	2	7.6	7.1	8.7
Patrick	1	1		5.7	6.2	0.0
Pittsylvania	20	9	11	23.9	17.6	33.6
Danville	11	8	3	17.3	22.5	10.8
Martinsville				0.0	0.0	0.0
District 13	20	7	13	17.1	12.8	20.9
Brunswick	4	1	3	16.7	11.2	20.0
Halifax	7	3	4	16.3	13.3	19.6
Mecklenburg	8	2	6	20.1	10.9	27.8
South Boston	1	1		9.8	20.0	0.0
District 14	18	9	9	15.7	16.2	15.3
Amelia	2	1	1	16.8	12.3	26.3
Buckingham	7	3	4	42.9	38.5	47.1
Charlotte	4	2	2	26.3	26.3	26.3
Cumberland				0.0	0.0	0.0
Lunenburg	4	2	2	24.8	25.3	24.4
Nottoway				0.0	0.0	0.0
Prince Edward	1	1		4.0	9.9	0.0
District 15	124	62	62	13.9	11.0	18.9
Charles City Co.	2	1	1	19.2	52.6	11.8
Chesterfield	16	14	2	7.9	7.8	8.3
Goochland	4	3	1	30.1	34.9	21.3
Hanover	9	5	4	14.5	9.9	35.1
Henrico	28	23	5	12.2	12.9	9.7
New Kent	1	1		8.8	11.9	0.0
Powhatan	3	3		20.8	24.4	0.0
Richmond City	61	12	49	17.6	9.7	22.0
District 16	16	15	1	9.1	10.7	2.8
Caroline	1		1	3.9	0.0	9.1
King George	1	1		5.7	8.0	0.0
Spotsylvania	5	5		9.0	10.6	0.0
Stafford	4	4		7.0	7.7	0.0
Fredericksburg	5	5		25.3	36.0	0.0
District 17	6		6	11.7	0.0	24.7
Lancaster	3		3	28.3	0.0	53.6
Northumberland	1		1	8.1	0.0	19.6
Richmond				0.0	0.0	0.0
Westmoreland	2		2	11.0	0.0	23.3
District 18	6	4	2	8.0	7.9	8.1
Essex	2	2		14.8	29.0	0.0
Gloucester	1	1		3.8	4.5	0.0
King and Queen	3	1	2	33.7	28.6	37.0
King William				0.0	0.0	0.0
Mathews				0.0	0.0	0.0
Middlesex				0.0	0.0	0.0
District 19	39	14	25	16.4	11.8	21.0
Dinwiddie	2	1	1	8.2	7.2	9.6
Greensville	6	2	4	32.8	36.4	31.3
Prince George	3		3	9.2	0.0	26.1
Surry	2	1	1	22.2	31.3	17.2
Sussex	3		3	19.0	0.0	26.5
Colonial Heights				0.0	0.0	0.0
Emporia	3		3	36.6	0.0	63.8
Hopewell	7	6	1	17.2	20.5	8.6
Petersburg	13	4	9	18.1	18.5	18.0
District 20	152	73	79	10.3	7.9	14.4
Isle of Wight	4	2	2	13.0	11.9	14.4
Southampton	1		1	4.6	0.0	8.5
Chesapeake	24	8	16	12.7	6.6	23.5
Franklin City	2		2	18.3	0.0	31.3
Norfolk	51	20	31	9.7	6.8	13.4
Portsmouth	26	10	16	12.9	11.0	14.4
Suffolk	3	1	2	4.3	3.4	5.0
Virginia Beach	41	32	9	9.7	9.0	13.5
District 21	55	33	22	9.9	9.3	11.2
James City Co.	2		2	7.1	0.0	20.4
York	4	2	2	13.8	9.1	29.0
Hampton	19	12	7	9.2	9.2	9.3
Newport News	29	19	10	10.8	11.3	9.9
Poquoson				0.0	0.0	
Williamsburg	1		1	8.0	0.0	27.7
District 22	10	3	7	14.6	9.9	18.2
Accomack	8	3	5	18.2	14.4	21.6
Northampton	2		2	8.1	0.0	13.2

TABLE 34 - INFANT DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 LIVE BIRTHS BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979

Planning District/ City or County	DEATHS UNDER ONE YEAR								
	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
				Number			Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	1,064	646	418	1,135	712	423	14.8	12.5	21.0
District 1	19	19		33	32	1	21.6	21.3	35.7
Lee	1	1		8	8		22.3	22.3	0.0
Scott				5	4	1	17.5	14.2	333.3
Wise	11	11		16	16		19.5	20.0	0.0
Norton	7	7		4	4		59.7	62.5	0.0
District 2	19	19		34	34		15.1	15.3	0.0
Buchanan	4	4		6	6		9.9	9.9	0.0
Dickenson				3	3		9.0	9.0	0.0
Russell	1	1		12	12		25.5	25.7	0.0
Tazewell	14	14		13	13		15.5	15.9	0.0
District 3	26	25	1	41	39	2	19.3	18.8	37.0
Bland				2	2		29.0	29.0	
Carroll	2	2		6	6		22.5	22.6	0.0
Grayson	2	2		4	4		24.1	24.8	0.0
Smyth	6	5	1	6	5	1	15.0	12.8	142.9
Washington	10	10		13	13		21.3	21.7	0.0
Wythe	3	3		5	5		15.9	16.4	0.0
Bristol				5	4	1	22.6	19.6	58.8
Galax	3	3					0.0	0.0	0.0
District 4	10	9	1	25	23	2	16.7	16.0	35.1
Floyd				1	1		7.6	7.7	0.0
Giles	3	3		7	7		33.0	33.5	0.0
Montgomery	4	3	1	9	7	2	15.1	12.2	90.9
Pulaski	1			7	7		15.8	16.5	0.0
Radford	2	2		1	1		9.2	10.0	0.0
District 5	52	40	12	45	34	11	14.9	13.5	21.4
Alleghany	3	3		3	3		18.1	18.9	0.0
Botetourt	1	1		3	3		10.9	11.5	0.0
Craig							0.0	0.0	
Roanoke				11	10	1	14.5	13.9	28.6
Clifton Forge							0.0	0.0	0.0
Covington				1	1		8.8	9.8	0.0
Roanoke City	45	33	12	26	16	10	19.3	17.2	24.0
Salem	3	3		1	1		3.9	4.2	0.0
District 6	21	20	1	33	30	3	12.3	11.9	18.8
Augusta	1	1		7	7		10.2	10.6	0.0
Bath	1	1		2	2		22.0	24.4	0.0
Highland				1	1		17.9	18.2	0.0
Rockbridge	1	1		3	2	1	12.7	8.9	83.3
Rockingham				9	9		11.0	11.3	0.0
Buena Vista				1	1		12.7	13.7	0.0
Harrisonburg	11	11		2	2		11.0	12.0	0.0
Lexington	1	1					0.0	0.0	0.0
Staunton	4	3	1	6	4	2	22.4	17.2	57.1
Waynesboro	2	2		2	2		9.9	11.3	0.0
District 7	14	13	1	21	20	1	11.7	11.8	10.9
Clarke							0.0	0.0	0.0
Frederick				5	5		10.0	10.2	0.0
Page				2	2		7.8	8.0	0.0
Shenandoah	1	1		3	3		8.0	8.1	0.0
Warren	4	4		6	6		20.8	22.7	0.0
Winchester	9	8	1	5	4	1	20.7	18.7	35.7
District 8	93	61	32	150	110	40	9.7	8.4	16.0
Arlington	12	4	8	15	7	8	7.9	4.7	20.0
Fairfax	55	38	17	84	61	23	10.8	9.1	21.2
Loudoun	1	1		7	6	1	8.2	7.7	14.3
Prince William	2	2		28	24	4	10.6	10.3	13.2
Alexandria	17	11	6	11	7	4	7.6	7.8	7.1
Fairfax City	1		1	3	3		9.8	10.6	0.0
Falls Church				2	2		17.4	18.9	0.0
Manassas	5	5					0.0	0.0	0.0
Manassas Park							0.0	0.0	0.0
District 9	3	2	1	11	7	4	8.3	6.7	14.7
Culpeper	2	1	1	3	1	2	8.5	3.7	24.7
Fauquier	1	1		4	4		8.2	10.0	0.0
Madison				1	1		7.5	9.3	0.0
Orange				2		2	7.5	0.0	27.4
Rappahannock				1	1		12.2	12.8	0.0
District 10	114	89	25	32	21	11	16.7	14.1	25.9
Albemarle	109	85	24	12	10	2	17.0	16.4	20.8
Fluvanna	1	1		4	1	3	26.5	9.0	75.0
Greene							0.0	0.0	0.0
Louisa				3	2	1	11.6	11.8	11.1
Nelson	1		1	2	1	1	12.4	8.3	24.4
Charlottesville	3	3		11	7	4	22.0	19.6	28.2
District 11	59	37	22	51	35	16	19.9	18.1	25.3
Amherst	2	1	1	4	3	1	10.8	10.5	11.8
Appomattox				2	2		12.7	16.3	0.0
Bedford	1	1		8	6	2	17.8	15.6	30.8
Campbell	3	2	1	11	7	4	17.2	13.6	31.5
Bedford City	3	2	1	3	1	2	42.9	17.9	142.9
Lynchburg	50	31	19	23	16	7	26.3	28.1	22.8

(continued)

TABLE 34 - INFANT DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 LIVE BIRTHS BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979 (continued)

Planning District/ City or County	DEATHS UNDER ONE YEAR								
	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
				Number			Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	1,064	646	410	1,135	712	423	14.8	12.5	21.0
District 12	40	21	19	62	36	26	20.1	17.5	25.3
Franklin	3	3		8	7	1	19.1	20.6	12.5
Henry	1		1	9	6	3	11.4	10.7	13.0
Patrick				1	1		5.7	6.2	0.0
Pittsylvania	4	2	2	30	14	16	35.8	27.4	48.9
Danville	28	14	14	12	8	4	18.9	22.5	14.3
Martinsville	4	2	2	2		2	9.0	0.0	20.8
District 13	14	3	11	25	7	18	21.4	12.8	28.9
Brunswick	2		2	6	1	5	25.1	11.2	33.3
Halifax	1		1	8	3	5	18.6	13.3	24.5
Mecklenburg	6		6	10	2	8	25.1	10.9	37.0
South Boston	5	3	2	1	1		9.8	20.0	0.0
District 14	4	1	3	21	9	12	18.3	16.2	20.3
Amelia				2	1	1	16.8	12.3	26.3
Buckingham				7	3	4	42.9	38.5	47.1
Charlotte	1		1	4	2	2	26.3	26.3	26.3
Cumberland	2		2	2		2	20.8	0.0	38.5
Lunenburg				5	2	3	31.1	25.3	36.6
Nottoway							0.0	0.0	0.0
Prince Edward	1	1		1	1		4.0	9.9	0.0
District 15	230	119	111	163	81	82	18.3	14.4	25.0
Charles City Co.				3	1	2	28.8	52.6	23.5
Chesterfield				23	20	3	11.3	11.2	12.4
Goochland				4	3	1	30.1	34.9	21.3
Hanover	1		1	9	5	4	14.5	9.9	35.1
Henrico	21	17	4	37	30	7	16.1	16.8	13.6
New Kent				1	1		8.8	11.9	0.0
Powhatan				4	4		27.8	32.5	0.0
Richmond City	208	102	106	82	17	65	23.7	13.8	29.1
District 16	6	5	1	18	17	1	10.2	12.1	2.8
Caroline				1		1	3.9	0.0	9.1
King George				1	1		5.7	8.0	0.0
Spotsylvania				6	6		10.8	12.7	0.0
Stafford				5	5		8.7	9.6	0.0
Fredericksburg	6	5	1	5	5		25.3	36.0	0.0
District 17	2		2	6		6	11.7	0.0	24.7
Lancaster	2		2	3		3	28.3	0.0	53.6
Northumberland				1		1	8.1	0.0	19.6
Richmond							0.0	0.0	0.0
Westmoreland				2		2	11.0	0.0	23.3
District 18	1	1		8	5	3	10.6	9.9	12.1
Essex				2	2		14.8	29.0	0.0
Gloucester	1	1		3	2	1	11.5	9.0	25.6
King and Queen				3	1	2	33.7	28.6	37.0
King William							0.0	0.0	0.0
Mathews							0.0	0.0	0.0
Middlesex							0.0	0.0	0.0
District 19	30	13	17	52	22	30	21.9	18.5	25.3
Dinwiddie	2	1	1	4	2	2	16.5	14.4	19.2
Greensville				7	2	5	38.3	36.4	39.1
Prince George	1	1		3		3	9.2	0.0	26.1
Surry				2	1	1	22.2	31.3	17.2
Sussex				3		3	19.0	0.0	26.5
Colonial Heights				1	1		6.0	6.2	0.0
Emporia	7	2	5	3		3	36.6	0.0	63.8
Hopewell	5	4	1	10	9	1	24.5	30.8	8.6
Petersburg	15	5	10	19	7	12	26.5	32.4	24.0
District 20	254	122	132	209	96	113	14.2	10.4	20.6
Isle of Wight	6	2	4	6	2	4	19.5	11.9	28.8
Southampton				3	1	2	13.8	9.9	17.1
Chesapeake	5	2	3	33	12	21	17.4	9.9	30.8
Franklin City	1	1		2		2	18.3	0.0	31.3
Norfolk	176	73	103	74	27	47	14.0	9.1	20.3
Portsmouth	54	35	19	34	13	21	16.8	14.3	18.9
Suffolk	6	2	4	7	2	5	10.1	6.8	12.6
Virginia Beach	12	9	3	50	39	11	11.9	11.0	16.5
District 21	47	27	20	53	51	32	15.0	14.3	16.2
James City Co.				2		2	7.1	0.0	20.4
York				5	3	2	17.3	13.6	29.0
Hampton	16	7	9	30	17	13	14.6	13.0	17.2
Newport News	26	17	9	43	29	14	16.0	17.3	13.9
Poquoson	1	1		2	2		19.6	19.6	
Williamsburg	4	2	2	1		1	8.0	0.0	22.7
District 22	6		6	12	3	9	17.5	9.9	23.4
Accomack				10	3	7	22.7	14.4	30.2
Northampton	6		6	2		2	8.1	0.0	13.2

TABLE 35 - PERINATAL MORTALITY RATE WITH INFANT DEATHS UNDER ONE WEEK AND FETAL DEATHS 28 WEEKS AND OVER GESTATION, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Infant Deaths Under One Week			Fetal Deaths 28 Weeks and Over			Perinatal Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	713	440	273	473	310	163	15.3	13.1	21.5
District 1	23	22	1	13	13		23.3	23.1	35.7
Lee	3	3		8	8		30.0	30.1	0.0
Scott	4	3	1	3	3		24.3	21.1	333.3
Wise	13	13		2	2		18.2	18.7	0.0
Norton	3	3					44.8	46.9	0.0
District 2	22	22		11	11		14.6	14.8	0.0
Buchanan	2	2		4	4		9.8	9.8	0.0
Dickenson	3	3		2	2		14.8	15.0	0.0
Russell	10	10		2	2		25.4	25.6	0.0
Tazewell	7	7		3	3		11.9	12.2	0.0
District 3	27	26	1	7	7		16.0	15.9	18.5
Bland	1	1					14.5	14.5	
Carroll	1	1					3.7	3.8	0.0
Grayson	2	2					12.0	12.4	0.0
Smyth	5	5		5	5		24.8	25.2	0.0
Washington	11	11					18.0	18.3	0.0
Wythe	4	4		1	1		15.8	16.3	0.0
Bristol	3	2	1				13.6	9.8	58.8
Galax				1	1		13.0	13.5	0.0
District 4	19	17	2	8	8		18.0	17.3	35.1
Floyd	1	1		1	1		15.0	15.5	0.0
Giles	5	5					23.6	23.9	0.0
Montgomery	7	5	2	5	5		19.9	17.2	90.9
Pulaski	5	5		2	2		15.7	16.5	0.0
Radford	1	1					9.2	10.0	0.0
District 5	29	20	9	18	14	4	15.5	13.5	25.1
Alleghany	3	3		1	1		24.0	25.0	0.0
Botetourt	1	1					3.6	3.8	0.0
Craig							0.0	0.0	
Roanoke	6	5	1	6	6		15.7	15.1	28.6
Clifton Forge							0.0	0.0	0.0
Covington	1	1					8.8	9.8	0.0
Roanoke City	18	10	8	10	6	4	20.6	17.1	28.5
Salem				1	1		3.9	4.1	0.0
District 6	22	20	2	31	31		19.5	19.9	12.5
Augusta	3	3		10	10		18.6	19.3	0.0
Bath	2	2					22.0	24.4	0.0
Highland	1	1		1	1		35.1	35.7	0.0
Rockbridge	3	2	1	2	2		21.0	17.7	83.3
Rockingham	5	5		10	10		18.1	18.6	0.0
Buena Vista				1	1		12.5	13.5	0.0
Harrisonburg	2	2		2	2		21.7	23.7	0.0
Lexington							0.0	0.0	0.0
Staunton	5	4	1	1	1		22.3	21.4	28.6
Waynesboro	1	1		4	4		24.2	27.6	0.0
District 7	5	5		15	14	1	11.1	11.1	10.8
Clarke							0.0	0.0	0.0
Frederick	1	1		4	4		9.9	10.1	0.0
Page				3	3		11.5	11.8	0.0
Shenandoah	1	1		2	2		8.0	8.1	0.0
Warren	3	3		4	4		24.0	26.1	0.0
Winchester				2	1	1	8.2	4.7	34.5
District 8	85	66	19	81	66	15	10.6	10.1	13.5
Arlington	10	7	3	1	1		5.8	5.3	7.5
Fairfax	48	35	13	42	36	6	11.5	10.5	17.4
Loudoun	5	5		5	5		11.7	12.7	0.0
Prince William	12	11	1	21	17	4	12.4	11.9	16.3
Alexandria	8	6	2	6	3	3	9.6	10.0	8.9
Fairfax City	1	1					3.3	3.5	0.0
Falls Church	1	1		4	3	1	42.0	36.7	100.0
Manassas				2	1	1	5.7	3.2	25.6
Manassas Park							0.0	0.0	0.0
District 9	8	5	3	8	6	2	12.0	10.4	18.2
Culpeper	1		1	1	1		5.6	3.6	12.3
Fauquier	4	4		3	2	1	14.3	15.0	11.1
Madison	1	1					7.5	9.3	0.0
Orange	2		2	3	2	1	18.6	10.3	40.5
Rappahannock				1	1		12.0	12.7	0.0
District 10	12	8	4	10	8	2	11.4	10.7	14.1
Albemarle	5	4	1	5	4	1	14.1	13.1	20.6
Fluvanna	3	1	2	1	1		26.3	17.9	50.0
Greene							0.0	0.0	0.0
Louisa							0.0	0.0	0.0
Nelson							0.0	0.0	0.0
Charlottesville	4	3	1	4	3	1	15.9	16.7	14.0
District 11	32	19	13	16	10	6	18.6	14.9	29.8
Amherst	2	1	1	3	2	1	13.3	10.4	23.3
Appomattox	2	2		2	1	1	25.2	24.2	28.6
Bedford	7	5	2	5	3	2	26.4	20.7	59.7
Campbell	5	3	2	2	1	1	10.9	7.8	23.4
Bedford City	1		1				14.3	0.0	71.4
Lynchburg	15	8	7	4	3	1	21.6	19.2	26.0

(continued)

TABLE 35 - PERINATAL MORTALITY RATE WITH INFANT DEATHS UNDER ONE WEEK AND FETAL DEATHS 28 WEEKS AND OVER GESTATION, BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Infant Deaths Under One Week			Fetal Deaths 28 Weeks and Over			Perinatal Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	713	440	273	473	310	163	15.3	13.1	21.5
District 12	37	21	16	24	13	11	19.7	16.4	26.0
Franklin	6	5	1	3	2	1	21.3	20.5	24.7
Henry	5	3	2	1		1	7.6	5.3	12.9
Patrick							0.0	0.0	0.0
Pittsylvania	17	7	10	7	4	3	28.4	21.4	39.4
Danville	9	6	3	9	5	4	28.0	30.5	24.7
Martinsville				4	2	2	17.7	15.6	20.4
District 13	15	5	10	16	7	9	26.2	21.7	30.1
Brunswick	4	1	3	2		2	24.9	11.2	32.9
Halifax	6	3	3	9	3	6	34.2	26.3	42.9
Mecklenburg	5	1	4	4	3	1	22.3	21.5	23.0
South Boston				1	1		9.7	19.6	0.0
District 14	15	7	8	15	4	11	25.9	19.7	31.6
Amelia	2	1	1	1		1	25.0	12.3	51.3
Buckingham	7	3	4	3		3	60.2	38.5	79.5
Charlotte	2	1	1	2	1	1	26.0	26.0	26.0
Cumberland							0.0	0.0	0.0
Lunenburg	4	2	2	1		1	30.9	25.3	36.1
Nottoway				2	1	1	9.6	10.3	8.9
Prince Edward				6	2	4	23.7	19.4	26.7
District 15	110	53	57	54	27	27	18.3	14.1	25.4
Charles City Co.	2	1	1				19.2	52.6	11.8
Chesterfield	14	12	2	7	5	2	10.3	9.5	16.5
Goochland	4	3	1	1		1	37.3	34.9	41.7
Hanover	7	4	3	4	3	1	17.6	13.8	34.8
Henrico	21	18	3	21	13	8	18.1	17.2	21.0
New Kent	1	1					8.8	11.9	0.0
Powhatan	2	2		3	3		34.0	39.7	0.0
Richmond City	59	12	47	18	3	15	22.1	12.1	27.6
District 16	15	15		6	4	2	11.9	13.5	5.5
Caroline				1		1	3.8	0.0	9.0
King George	1	1		1		1	11.3	8.0	19.2
Spotsylvania	5	5		1	1		10.8	12.7	0.0
Stafford	4	4		2	2		10.4	11.5	0.0
Fredericksburg	5	5		1	1		30.2	42.9	0.0
District 17	6		6	2		2	15.6	0.0	32.7
Lancaster	3		3	1		1	37.4	0.0	70.2
Northumberland	1		1				8.1	0.0	19.6
Richmond							0.0	0.0	0.0
Westmoreland	2		2	1		1	16.5	0.0	34.5
District 18	4	3	1	7	3	4	14.5	11.8	19.9
Essex	1	1					7.4	14.5	0.0
Gloucester	1	1		4	2	2	18.8	13.3	48.8
King and Queen	2	1	1				22.5	28.6	18.5
King William				2	1	1	16.8	13.2	23.3
Mathews				1		1	15.2	0.0	62.5
Middlesex							0.0	0.0	0.0
District 19	35	12	23	11	4	7	19.3	13.4	25.1
Dinwiddie	1		1	1	1		8.2	7.1	9.6
Greensville	5	2	3				27.3	36.4	23.4
Prince George	3		3	1		1	12.2	0.0	34.5
Surry	2	1	1				22.2	31.3	17.2
Sussex	3		3	1		1	25.2	0.0	35.1
Colonial Heights							0.0	0.0	0.0
Emporia	3		3				36.6	0.0	63.8
Hopewell	6	5	1	4	3	1	24.3	27.1	17.1
Petersburg	12	4	8	4		4	22.2	18.5	23.8
District 20	132	60	72	86	44	42	14.7	11.2	20.6
Isle of Wight	4	2	2	3	2	1	22.6	23.5	21.4
Southampton	1		1	1		1	9.1	0.0	16.9
Chesapeake	22	7	15	13	8	5	18.4	12.3	29.1
Franklin City	2		2				18.3	0.0	31.3
Norfolk	43	15	28	28	14	14	13.4	9.8	18.1
Portsmouth	22	8	14	9	2	7	15.3	11.0	18.8
Suffolk	2		2	11	3	8	18.5	10.1	24.7
Virginia Beach	36	28	8	21	15	6	13.5	12.1	20.8
District 21	50	31	19	28	13	15	14.0	12.3	17.1
James City Co.	2		2	2		2	14.2	0.0	40.0
York	3	2	1				10.4	9.1	14.5
Hampton	17	11	6	10	5	5	13.0	12.2	14.5
Newport News	27	18	9	14	8	6	15.2	15.4	14.8
Poquoson							0.0	0.0	
Williamsburg	1		1	2		2	23.6	0.0	65.2
District 22	10	3	7	4	1	3	20.2	13.2	25.8
Accomack	8	3	5	3	1	2	24.8	19.1	29.9
Northampton	2		2	1		1	12.1	0.0	19.6
Unknown				2	2				

$$\text{Perinatal rate} = \frac{\text{Infant Deaths Under One Week + Fetal Deaths 28 Weeks and Over}}{\text{Live Births + Fetal Deaths 28 Weeks and Over}} \times 1{,}000$$

TABLE 36
RESIDENT INFANT DEATHS BY RACE AND SEX BY CAUSE OF DEATH WITH RATES PER 100,000 LIVE BIRTHS
VIRGINIA, 1979

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, 9th Revision)	Infant Deaths					Rates				
	Total	White Male	White Female	Nonwh Male	Nonwh Female	Total	White Male	White Female	Nonwh Male	Nonwh Female
STATE OF VIRGINIA	1,135	430	282	213	210	1,476.0	1,471.9	1,024.6	2,075.4	2,121.2
Certain intestinal infections (008-009)	2		1		1	2.6	0.0	3.6	0.0	10.1
Whooping cough (033)						0.0	0.0	0.0	0.0	0.0
Meningococcal infections (036)	2	1	1			2.6	3.4	3.6	0.0	0.0
Septicemia (038)	13	6	3	4		16.9	20.5	10.9	39.0	0.0
Viral diseases (045-079)	3	3				3.9	10.3	0.0	0.0	0.0
Congenital syphilis (090)						0.0	0.0	0.0	0.0	0.0
Other infectious and parasitic diseases (Residual of 001-139)	4	3			1	5.2	10.3	0.0	0.0	10.1
Malignant neoplasms (140-208)	1		1			1.3	0.0	3.6	0.0	0.0
Benign neoplasms and neoplasms of unspecified nature (210-239)	1			1		1.3	0.0	0.0	9.7	0.0
Diseases of thymus gland (254)						0.0	0.0	0.0	0.0	0.0
Cystic fibrosis (277.0)						0.0	0.0	0.0	0.0	0.0
Diseases of blood and blood-forming organs (280-289)	3	1	1		1	3.9	3.4	3.6	0.0	10.1
Meningitis (320-322)	9	6	1	1	1	11.7	20.5	3.6	9.7	10.1
Other diseases of nervous system and sense organs (323-389)	13	3	8	1	1	16.9	10.3	29.1	9.7	10.1
Acute upper respiratory infections (460-465)	2			2		2.6	0.0	0.0	19.5	0.0
Bronchitis and bronchiolitis (466,490-491)	5	2	1	1	1	6.5	6.8	3.6	9.7	10.1
Pneumonia and influenza (480-487)	15	3	2	5	5	19.5	10.3	7.3	48.7	50.5
Pneumonia (480-486)	15	3	2	5	5	19.5	10.3	7.3	48.7	50.5
Influenza (487)						0.0	0.0	0.0	0.0	0.0
Other diseases of respiratory system (470-478,492-519)	3	1	1		1	3.9	3.4	3.6	0.0	10.1
Hernia and intestinal obstruction (550-553,560)	1	1				1.3	3.4	0.0	0.0	0.0
Gastritis, duodenitis, and noninfective enteritis and colitis (535,555-558)	2		1	1		2.6	0.0	3.6	9.7	0.0
Other diseases of digestive system (520-534,536-543,562-579)	5	3	1		1	6.5	10.3	3.6	0.0	10.1
Congenital Anomalies (740-759)	222	105	64	25	28	288.7	359.4	232.5	243.6	282.8
Anencephalus (740)	14	8	6			18.2	27.4	21.8	0.0	0.0
Spina bifida (741)	12	7	4	1		15.6	24.0	14.5	9.7	0.0
Congenital hydrocephalus (742.3)	5	1	2	1	1	6.5	3.4	7.3	9.7	10.1
Other anomalies of central nervous system and eye (742.0-742.2,742.4-742.9,743)	11	2	6		3	14.3	6.8	21.8	0.0	30.3
Anomalies of heart (745-746)	68	38	18	5	7	88.4	130.1	65.4	48.7	70.7
Other anomalies of circulatory system (747)	20	10	4	3	3	26.0	34.2	14.2	29.2	30.3
Anomalies of respiratory system (748)	22	9	2	4	7	28.6	30.8	7.3	39.0	70.7
Anomalies of digestive system (749-751)	6	2	2	1	1	7.8	6.8	7.3	9.7	10.1
Anomalies of genitourinary system (752-753)	5	3		1	1	6.5	10.3	0.0	9.7	10.1
Anomalies of musculoskeletal system (754-756)	14	6	6	2		18.2	20.5	21.8	19.3	0.0
Down's syndrome (758.0)	3	1		1	1	3.9	3.4	0.0	9.7	10.1
Other chromosomal anomalies (758.1-758.9)	13	4	6	2	1	16.9	13.7	21.8	19.5	10.1
Other and unspecified anomalies (744,757,759)	29	14	8	4	3	37.7	47.9	29.1	39.0	30.3

(continued)

TABLE 36
RESIDENT INFANT DEATHS BY RACE AND SEX BY CAUSE OF DEATH WITH RATES PER 100,000 LIVE BIRTHS
VIRGINIA, 1979 (continued)

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, 9th Revision)	Infant Deaths					Rates				
	Total	White Male	White Female	Nonwh Male	Nonwh Female	Total	White Male	White Female	Nonwh Male	Nonwh Female
STATE OF VIRGINIA	1,135	430	282	213	210	1,476.0	1,471.9	1,024.6	2,075.4	2,121.2
Certain Conditions Originating in the Perinatal Period (760-779)	650	233	157	133	127	845.3	797.6	570.4	1,295.9	1,282.8
Maternal conditions unrelated to present pregnancy (760)	2	2				2.6	6.8	0.0	0.0	0.0
Maternal complications of pregnancy (761)	37	11	5	11	10	48.1	37.7	18.2	107.2	101.0
Complications of placenta, cord, and membranes (762)	22	10	6	2	4	28.6	34.2	21.8	19.5	40.4
Other complications of labor and delivery (763)	2		1	1		2.6	0.0	3.6	9.7	0.0
Slow fetal growth and fetal malnutrition (764)	8	3	4	1		10.4	10.3	14.5	9.7	0.0
Disorders relating to short gestation and low birthweight (765)	142	46	27	36	33	184.7	157.5	98.1	350.8	333.3
Disorders relating to long gestation and high birthweight (766)						0.0	0.0	0.0	0.0	0.0
Birth trauma (767)	40	18	7	10	5	52.0	61.6	25.4	97.4	50.5
Intrauterine Hypoxia and Birth Asphyxia (768)	43	19	11	6	7	55.9	65.0	40.0	58.5	70.7
Fetal distress in liveborn infant (768.2-768.4)	9	3	4	1	1	11.7	10.3	14.5	9.7	10.1
Birth asphyxia (768.5-768.9)	34	16	7	5	6	44.2	54.8	25.4	48.7	60.6
Respiratory distress syndrome (769)	122	61	33	16	12	158.6	208.8	119.9	155.9	121.2
Other respiratory conditions (770)	97	32	24	20	21	126.1	109.5	87.2	194.9	212.1
Infections specific to perinatal period (771)	24	5	9	4	6	31.2	17.1	32.7	39.0	60.6
Neonatal hemorrhage (772)	25	3	11	7	4	32.5	10.3	40.0	68.2	40.4
Hemolytic disease due to isoimmunization and other perinatal jaundice (773-774)	1			1		1.3	0.0	0.0	9.7	0.0
Syndrome of "infant of diabetic mother" and neonatal diabetes mellitus (775.0-775.1)						0.0	0.0	0.0	0.0	0.0
Hemorrhagic disease (776.0)						0.0	0.0	0.0	0.0	0.0
Other conditions originating in perinatal period (775.2-775.9,776.1-779)	85	23	19	18	25	110.5	78.7	69.0	175.4	252.5
Symptoms and Ill-defined Conditions (780-799)	127	49	24	27	27	165.2	167.7	87.2	263.1	272.7
Sudden infant death syndrome (798.0)	122	47	23	26	26	158.6	160.9	83.6	253.3	262.6
Symptoms and all ill-defined conditions (780-797,798.1-799)	5	2	1	1	1	6.5	6.8	3.6	9.7	10.1
Accidents (E800-E949)	18	3	6	5	4	23.4	10.3	21.8	48.7	40.4
Motor vehicle (E810-E825)	3		2	1		3.9	0.0	7.3	9.7	0.0
Inhalation or ingestion of food or object (E911-E912)	3		1	2		3.9	0.0	3.6	19.5	0.0
Mechanical suffocation (E913)	5		3	1	1	6.5	0.0	10.9	9.7	10.1
Other accidents (Residual of E800-E949)	7	3		1	3	9.1	10.3	0.0	9.7	30.3
Homicide (E960-E969)	1			1		1.3	0.0	0.0	9.7	0.0
Child battering and other maltreatment (E967)						0.0	0.0	0.0	0.0	0.0
Other homicide (E960-E966,E968-E969)	1			1		1.3	0.0	0.0	9.7	0.0
All other causes	33	7	9	6	11	42.9	24.0	32.7	58.5	111.1

TABLE 37
RESIDENT INFANT DEATHS BY AGE AND CAUSE OF DEATH
VIRGINIA, 1979

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, 9th Revision)	Total Under 1 Year	Under 1 Day	1-6 Days	7-13 Days	14-20 Days	21-27 Days	Total Under 28 Days	1 Mo.	2 Mos.	3-5 Mos.	6-8 Mos.	9-11 Mos.
STATE OF VIRGINIA	1,135	463	250	65	36	21	835	81	52	103	38	26
Certain intestinal infections (008-009)	2							1		1		
Whooping cough (033)												
Meningococcal infections (036)	2									1		1
Septicemia (038)	13	1	1				2	7	1	1	1	1
Viral diseases (045-079)	3									2	1	
Congenital syphilis (090)												
Other infectious and parasitic diseases (Residual of 001-139)	4								2	1		1
Malignant neoplasms (140-208)	1											1
Benign neoplasms and neoplasms of unspecified nature (210-239)	1							1				
Diseases of thymus gland (254)												
Cystic fibrosis (277.0)												
Diseases of blood and blood-forming organs (280-289)	3			1			1	1			1	
Meningitis (320-322)	9			1	2	1	4	1		1	2	1
Other diseases of nervous system and sense organs (323-389)	13			1			1	3	1	3		5
Acute upper respiratory infections (460-465)	2									2		
Bronchitis and bronchiolitis (466,490-491)	5							1		2	2	
Pneumonia and influenza (480-487)	15	1	4		2		7		1	6	1	
Pneumonia (480-486)	15	1	4		2		7		1	6	1	
Influenza (487)												
Other diseases of respiratory system (470-478,492-519)	3			1			1	1	1			
Hernia and intestinal obstruction (550-553,560)	1										1	
Gastritis, duodenitis, and noninfective enteritis and colitis (535,555-558)	2								1	1		
Other disease of digestive system (520-534,536-543,562-579)	5		1				1	3		1		
Congenital Anomalies (740-759)	222	62	62	17	5	5	151	19	7	23	14	8
Anencephalus (740)	14	9	4				13	1				
Spina bifida (741)	12	3		1	2	1	7	1	1	2	1	
Congenital hydrocephalus (742.3)	5	2		1			3				1	1
Other anomalies of central nervous system and eye (742.0-742.2,742.4-742.9,743)	11	4	2	1			7	2		2		
Anomalies of heart (745-746)	68	2	27	8	1	2	40	6	2	10	6	4
Other anomalies of circulatory system (747)	20	1	12	2		1	16	2	1		1	
Anomalies of respiratory system (748)	22	9	7				16		2	2	2	
Anomalies of digestive system (749-751)	6	1		1			2	2		1		1
Anomalies of genitourinary system (752-753)	5	2	2				4			1		
Anomalies of musculoskeletal system (754-756)	14	9	4		1		14					
Down's syndrome (758.0)	3							1		1		1
Other chromosomal anomalies (758.1-758.9)	13	2	2	2	1		7	3		3		
Other and unspecified anomalies (744,757,759)	29	18	2	1		1	22	1	1	1	3	1

(continued)

TABLE 37
RESIDENT INFANT DEATHS BY AGE AND CAUSE OF DEATH
VIRGINIA, 1979 (continued)

CAUSE OF DEATH (Numbers refer to International Classification of Diseases, 9th Revision)	Total Under 1 Year	Under 1 Day	1-6 Days	7-13 Days	14-20 Days	21-27 Days	Total Under 28 Days	1 Mo.	2 Mos.	3-5 Mos.	6-8 Mos.	9-11 Mos.
STATE OF VIRGINIA	1,135	463	250	65	36	21	835	81	52	103	38	26
Certain Conditions Originating in the Perinatal Period (760-779)	650	391	173	40	25	6	635	5	2	5	2	1
Maternal conditions unrelated to present pregnancy (760)	2	1	1				2					
Maternal complications of pregnancy (761)	37	37					37					
Complications of placenta, cord, and membranes (762)	22	19	1	1			21	1				
Other complications of labor and delivery (763)	2	1	1				2					
Slow fetal growth and fetal malnutrition (764)	8	5	2			1	8					
Disorders relating to short gestation and low birthweight (765)	142	127	13	1			141	1				
Disorders relating to long gestation and high birthweight (766)												
Birth trauma (767)	40	8	21	7	4		40					
Intrauterine Hypoxia and Birth Asphyxia (768)	43	20	18	5			43					
Fetal distress in liveborn infant (768.2-768.4)	9	7	1	1			9					
Birth asphyxia (768.5-768.9)	34	13	17	4			34					
Respiratory distress syndrome (769)	122	47	51	13	7		118	1		3		
Other respiratory conditions (770)	97	64	20	1	3	1	89	2	2	1	2	1
Infections specific to perinatal period (771)	24	7	10	2	3	1	23			1		
Neonatal hemorrhage (772)	25	1	20	1	3		25					
Hemolytic disease due to isoimmunization and other perinatal jaundice (773-774)	1	1					1					
Syndrome of "infant of diabetic mother" and neonatal diabetes mellitus (775.0-775.1)												
Hemorrhagic disease (776.0)												
Other conditions originating in perinatal period (775.2-775.9,776.1-779)	85	53	15	9	5	3	85					
Symptoms and Ill-defined Conditions (780-799)	127	4	2	3	1	3	13	30	30	45	9	
Sudden infant death syndrome (798.0)	122		2	3	1	3	9	29	30	45	9	
Symptoms and all Ill-defined conditions (780-797,798.1-799)	5	4					4	1				
Accidents (E800-E949)	18	2	1			2	5	3	1	1	2	6
Motor vehicle (E810-E825)	3							1			2	
Inhalation or ingestion of food or object (E911-E912)	3					1	1					2
Mechanical suffocation (E913)	5	1				1	2	2		1		
Other accidents (Residual of E800-E949)	7	1	1				2		1			4
Homicide (E960-E969)	1	1					1					
Child battering and other maltreatment (E967)												
Other homicide (E960-E966,E968-E969)	1	1					1					
All other causes	33	1	6	1	1	4	13	5	5	7	2	1

TABLE 38 - DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for planning districts and the entire State are done on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
				Number			Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	40,170	31,059	9,111	40,798	31,749	9,049	7.8	7.6	8.2
District 1	715	699	16	982	961	21	10.0	9.9	12.9
Lee	173	172	1	263	262	1	10.2	10.2	6.6
Scott	73	73		263	259	4	10.6	10.5	22.2
Wise	278	267	11	410	396	14	9.5	9.4	13.8
Norton	191	187	4	46	44	2	10.0	10.1	7.2
District 2	777	765	12	1,091	1,071	20	8.0	8.0	9.4
Buchanan	184	184		247	245	2	6.7	6.7	13.8
Dickenson	59	59		164	164		8.3	8.3	0.0
Russell	153	153		260	256	4	8.6	8.6	12.1
Tazewell	381	369	12	420	406	14	8.4	8.4	9.3
District 3	1,496	1,444	52	1,737	1,680	57	9.8	9.8	11.2
Bland	15	14	1	51	50	1	8.1	8.2	4.6
Carroll	62	61	1	225	223	2	8.7	8.7	14.7
Grayson	50	49	1	159	153	6	9.9	9.9	10.7
Smyth	336	327	9	307	301	6	9.6	9.6	9.0
Washington	380	372	8	422	413	9	9.7	9.6	10.3
Wythe	231	219	12	253	243	10	10.1	10.1	10.4
Bristol	178	165	13	226	207	19	11.4	11.2	14.8
Galax	244	237	7	94	90	4	14.3	14.4	12.1
District 4	883	837	46	1,031	971	60	7.5	7.4	9.1
Floyd	46	43	3	115	110	5	10.2	10.2	12.5
Giles	139	134	5	195	188	7	11.2	11.1	17.5
Montgomery	295	283	12	334	317	17	7.6	7.5	8.2
Pulaski	232	218	14	299	278	21	8.7	8.6	10.7
Radford	171	159	12	88	78	10	10.3	9.9	15.9
District 5	3,002	2,639	363	2,426	2,129	297	9.8	9.8	10.2
Alleghany	166	151	15	125	123	2	9.4	9.5	5.2
Botetourt	83	77	6	204	192	12	9.0	8.9	10.5
Craig	10	10		41	41		10.2	10.3	0.0
Roanoke	255	242	13	493	479	14	7.2	7.2	7.2
Clifton Forge	146	133	13	76	61	15	15.2	14.6	18.5
Covington	26	23	3	96	86	10	10.6	11.0	8.1
Roanoke City	1,540	1,318	222	1,192	960	232	12.0	12.5	10.4
Salem	776	685	91	199	187	12	8.9	8.8	10.8
District 6	1,778	1,661	117	1,788	1,667	121	8.7	8.6	11.3
Augusta	188	166	22	416	398	18	8.1	8.1	8.4
Bath	43	40	3	74	64	10	13.1	12.5	18.0
Highland	12	12		38	38		13.2	13.3	0.0
Rockbridge	81	77	4	164	157	7	9.4	9.3	11.7
Rockingham	153	152	1	442	430	12	8.2	8.1	12.0
Buena Vista	22	21	1	73	70	3	10.9	10.9	10.9
Harrisonburg	508	482	26	144	134	10	11.3	11.2	14.8
Lexington	143	132	11	76	63	13	17.1	16.4	22.0
Staunton	373	338	35	219	185	34	10.3	9.9	13.7
Waynesboro	255	241	14	142	128	14	9.1	9.0	10.0
District 7	1,230	1,162	68	1,259	1,199	60	9.8	9.7	10.0
Clarke	39	37	2	99	85	14	11.0	10.7	13.1
Frederick	20	20		197	193	4	6.2	6.2	7.3
Page	138	132	6	211	204	7	11.0	11.0	12.5
Shenandoah	216	214	2	286	283	3	10.5	10.6	6.7
Warren	197	176	21	211	191	20	10.3	9.9	15.8
Winchester	620	583	37	255	243	12	11.9	12.5	5.8
District 8	4,866	4,368	498	5,311	4,794	517	4.9	5.1	3.6
Arlington	1,142	1,034	108	1,117	1,014	103	7.5	8.3	4.0
Fairfax	1,804	1,654	150	2,329	2,166	163	4.1	4.3	2.5
Loudoun	256	226	30	304	260	44	5.5	5.2	7.7
Prince William	234	207	27	434	392	42	3.1	3.2	2.8
Alexandria	894	749	145	780	634	146	7.6	8.5	5.1
Fairfax City	235	227	8	116	114	2	5.8	6.1	1.5
Falls Church	16	16		130	125	5	13.8	14.3	7.6
Manassas	285	255	30	80	69	11	5.5	5.4	6.9
Manassas Park				21	20	1	2.8	2.8	2.2
District 9	612	483	129	863	673	190	9.6	9.1	12.0
Culpeper	161	135	26	190	147	43	8.5	8.4	9.1
Fauquier	256	195	61	294	224	70	8.8	8.0	12.7
Madison	52	40	12	108	81	27	10.7	9.8	14.6
Orange	121	93	28	202	161	41	11.5	11.2	13.2
Rappahannock	22	20	2	69	60	9	11.5	11.3	13.0
District 10	1,601	1,252	349	1,185	930	255	8.5	8.2	9.7
Albemarle	990	755	235	346	299	47	7.6	7.4	8.4
Fluvanna	36	27	9	103	75	28	10.2	10.6	9.4
Greene	17	16	1	49	43	6	6.5	6.2	10.1
Louisa	57	26	31	167	105	62	9.4	8.8	10.6
Nelson	52	35	17	139	107	32	11.6	11.7	11.0
Charlottesville	449	393	56	381	301	80	11.7	11.4	13.1
District 11	1,740	1,357	383	1,689	1,314	375	8.8	8.5	10.1
Amherst	128	99	29	221	161	60	8.6	7.9	10.9
Appomattox	52	42	10	114	91	23	9.6	10.0	8.3
Bedford	92	82	10	289	244	45	8.6	8.3	11.6
Campbell	91	74	17	274	216	58	6.1	5.7	8.2
Bedford City	192	163	29	97	85	12	15.7	17.2	9.9
Lynchburg	1,185	897	288	694	517	177	11.1	10.9	11.5

(continued)

TABLE 38 - DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE WITH RESIDENT RATE PER 1,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979 (continued)

NOTE: Rates for cities and counties have been calculated on estimated July 1 household populations but rates for planning districts and the entire State are done on the total populations.

Planning District/ City or County	PLACE OF OCCURRENCE			PLACE OF RESIDENCE					
				Number			Rate		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	40,170	31,059	9,111	40,798	31,749	9,049	7.8	7.6	8.2
District 12	1,846	1,396	450	2,065	1,578	487	8.7	8.8	8.4
Franklin	146	122	24	280	238	42	8.4	8.2	10.3
Henry	85	64	21	396	312	84	6.9	7.2	6.2
Patrick	123	115	8	154	143	11	9.1	9.2	8.1
Pittsylvania	164	103	61	498	348	150	7.7	7.7	7.6
Danville	862	628	234	535	393	142	12.0	12.6	10.5
Martinsville	466	364	102	202	144	58	11.2	11.8	10.1
District 13	789	460	329	909	519	390	11.0	11.1	10.9
Brunswick	56	21	35	160	74	86	10.2	11.1	9.5
Halifax	95	56	39	331	197	134	10.9	10.9	11.0
Mecklenburg	294	172	122	343	198	145	11.6	11.3	12.1
South Boston	344	211	133	75	50	25	10.5	11.1	9.5
District 14	574	356	218	962	576	386	11.6	11.5	11.7
Amelia	37	19	18	92	50	42	10.9	9.7	12.9
Buckingham	47	30	17	146	90	56	12.6	13.5	11.3
Charlotte	72	44	28	182	118	64	14.7	15.5	13.3
Cumberland	20	11	9	69	40	29	9.1	9.3	8.8
Lunenburg	39	26	13	130	79	51	10.7	10.7	10.6
Nottoway	82	51	31	164	94	70	11.1	10.5	12.0
Prince Edward	277	175	102	179	105	74	13.5	12.8	14.6
District 15	6,142	4,290	1,852	5,243	3,719	1,524	8.4	8.4	8.4
Charles City Co.	20	7	13	48	21	27	7.2	15.0	5.1
Chesterfield	189	153	36	619	534	85	4.7	4.6	5.9
Goochland	35	21	14	87	46	41	7.9	6.6	10.1
Hanover	169	143	26	392	330	62	7.8	7.6	9.2
Henrico	1,500	1,302	198	1,374	1,253	121	7.7	8.4	4.2
New Kent	19	10	9	70	50	20	8.4	8.3	8.8
Powhatan	39	26	13	94	58	36	8.4	6.9	12.5
Richmond City	4,171	2,628	1,543	2,559	1,427	1,132	12.6	14.7	10.6
District 16	697	573	124	765	623	142	6.6	6.7	6.5
Caroline	59	35	24	141	82	59	8.1	8.5	7.6
King George	20	15	5	73	58	15	7.2	7.5	6.2
Spotsylvania	88	82	6	183	158	25	5.7	5.8	4.9
Stafford	96	82	14	191	176	15	5.1	5.1	4.8
Fredericksburg	434	359	75	177	149	28	12.5	13.4	9.4
District 17	299	234	65	505	372	133	12.5	14.1	9.4
Lancaster	179	148	31	135	100	35	13.3	14.8	10.3
Northumberland	40	30	10	129	100	29	13.2	15.5	8.8
Richmond	24	16	8	77	57	20	11.3	12.3	9.1
Westmoreland	56	40	16	164	115	49	11.9	13.5	9.2
District 18	493	351	142	624	439	185	10.7	10.5	11.4
Essex	145	93	52	74	49	25	8.7	9.7	7.1
Gloucester	180	134	46	172	138	34	9.0	8.6	11.1
King and Queen	20	14	6	69	40	29	11.6	12.7	10.3
King William	35	22	13	98	54	44	10.9	9.4	13.4
Mathews	56	42	14	103	77	26	12.9	11.7	18.0
Middlesex	57	46	11	108	81	27	14.4	15.3	12.3
District 19	1,452	874	578	1,489	890	599	9.3	9.6	8.9
Dinwiddie	203	111	92	198	111	87	10.0	9.9	10.2
Greensville	35	19	16	111	50	61	10.4	10.9	10.1
Prince George	51	39	12	93	65	28	4.9	5.2	4.3
Surry	25	13	12	69	35	34	11.7	15.8	9.2
Sussex	40	17	23	120	44	76	10.9	10.3	11.4
Colonial Heights	71	59	12	147	144	3	8.7	8.7	8.6
Emporia	176	81	95	60	34	26	12.2	11.6	13.0
Hopewell	204	174	30	209	173	36	8.9	9.3	7.2
Petersburg	647	361	286	482	234	248	11.5	14.9	9.5
District 20	6,209	3,941	2,268	6,051	3,803	2,248	7.2	6.7	8.4
Isle of Wight	43	22	21	169	91	78	8.1	7.5	9.0
Southampton	43	20	23	160	79	81	8.7	8.3	9.1
Chesapeake	430	300	130	732	503	229	6.5	6.3	7.0
Franklin City	154	89	65	77	36	41	10.6	11.2	10.2
Norfolk	2,823	1,667	1,156	2,217	1,270	947	9.4	8.9	10.3
Portsmouth	1,367	868	499	1,077	615	462	10.3	10.9	9.5
Suffolk	440	214	226	476	233	243	10.1	9.5	10.7
Virginia Beach	909	761	148	1,143	976	167	4.7	4.6	5.0
District 21	2,470	1,592	878	2,216	1,439	777	6.4	6.1	7.2
James City Co.	147	102	45	136	82	54	6.6	5.6	8.9
York	31	21	10	141	100	41	4.1	3.6	6.2
Hampton	867	509	358	798	523	275	6.7	6.9	6.4
Newport News	1,224	817	407	1,004	615	389	7.2	6.6	8.2
Poquoson	4	4		44	44		4.9	5.0	0.0
Williamsburg	197	139	58	93	75	18	17.1	15.7	26.2
District 22	499	325	174	607	402	205	13.1	14.7	10.7
Accomack	181	133	48	428	304	124	13.6	15.3	10.7
Northampton	318	192	126	179	98	81	11.9	13.1	10.7

TABLE 39

RESIDENT DEATHS FROM IMPORTANT CAUSES WITH RATES PER 100,000 POPULATION BY RACE, VIRGINIA, 1970-1979

YEAR	TOTAL		WHITE		NONWHITE	
	Number	Rate	Number	Rate	Number	Rate
TUBERCULOSIS, ALL FORMS (010-019) 010-018						
1970	143	3.1	69	1.8	74	8.3
1971	108	2.3	53	1.4	55	6.2
1972	94	2.0	43	1.1	51	5.7
1973	87	1.8	45	1.1	42	4.7
1974	92	1.9	45	1.1	47	5.3
1975	81	1.6	33	0.8	48	5.3
1976	77	1.5	30	0.7	47	5.0
1977	71	1.4	35	0.8	36	3.8
1978	60	1.2	30	0.7	30	3.0
1979	44	0.8	18	0.4	26	2.3
SYPHILIS (090-097) 090-097						
1970	16	0.3	5	0.1	11	1.2
1971	12	0.3	4	0.1	8	0.9
1972	10	0.2	3	0.1	7	0.8
1973	15	0.3	5	0.1	10	1.1
1974	11	0.2	3	0.1	8	0.9
1975	4	0.1	1	*	3	0.3
1976	7	0.1	2	*	5	0.5
1977	10	0.2	5	0.1	5	0.5
1978	8	0.2	4	0.1	4	0.4
1979	5	0.1	3	0.1	2	0.2
MALIGNANT NEOPLASMS (140-209) 140-208						
1970	6,383	136.8	5,022	133.1	1,361	152.5
1971	6,726	142.7	5,243	137.0	1,483	166.9
1972	7,158	150.3	5,597	144.6	1,561	174.9
1973	7,344	152.7	5,733	146.2	1,611	181.1
1974	7,581	154.5	5,985	149.1	1,596	178.8
1975	7,463	150.3	5,863	144.1	1,600	178.2
1976	7,533	149.7	5,861	143.1	1,672	178.6
1977	7,962	155.1	6,187	147.9	1,775	186.7
1978	8,117	157.7	6,292	151.5	1,825	183.3
1979	8,628	164.0	6,799	163.7	1,829	165.2
DIABETES MELLITUS (250) 250						
1970	600	12.9	416	11.0	184	20.6
1971	677	14.4	460	12.0	217	24.4
1972	712	14.9	486	12.6	226	25.3
1973	724	15.0	507	12.9	217	24.4
1974	741	15.1	500	12.5	241	27.0
1975	627	12.6	437	10.7	190	21.2
1976	620	12.3	428	10.5	192	20.5
1977	632	12.3	436	10.4	196	20.6
1978	629	12.2	401	9.7	228	22.9
1979	597	11.4	389	9.4	208	18.8
DISEASES OF HEART (390-398,402,404,410-429) 390-398,402,404-429						
1970	14,494	310.7	11,503	304.9	2,991	335.1
1971	14,580	309.3	11,694	305.7	2,886	324.8
1972	14,751	309.6	11,784	304.4	2,967	332.4
1973	14,945	310.6	11,875	302.8	3,070	345.1
1974	14,766	300.9	11,766	293.0	3,000	336.1
1975	14,587	293.7	11,646	286.2	2,941	327.6
1976	14,895	296.0	11,899	290.5	2,996	320.0
1977	14,460	281.6	11,573	276.6	2,887	303.7
1978	15,275	296.7	12,270	295.5	3,005	301.9
1979	15,366	292.2	12,297	296.2	3,069	277.2

TOTAL		WHITE		NONWHITE	
Number	Rate	Number	Rate	Number	Rate
HYPERTENSION (400-401,403) 401,403					
198	4.2	108	2.9	90	10.1
176	3.7	92	2.4	84	9.5
178	3.7	93	2.4	85	9.5
178	3.7	104	2.7	74	8.3
153	3.1	89	2.2	64	7.2
113	2.3	71	1.7	42	4.7
113	2.2	63	1.5	50	5.3
109	2.1	65	1.6	44	4.6
110	2.1	70	1.7	40	4.0
140	2.7	87	2.1	53	4.8
CEREBROVASCULAR DISEASE (430-438) 430-438					
4,175	89.5	3,055	81.0	1,120	125.5
4,213	89.4	3,182	83.2	1,031	116.0
4,466	93.7	3,335	86.1	1,131	126.7
4,422	91.9	3,308	84.4	1,114	125.2
4,238	86.3	3,183	79.3	1,055	118.2
3,932	79.2	2,925	71.9	1,007	112.2
3,958	78.7	3,016	73.6	942	100.6
3,852	75.0	2,871	68.6	981	103.2
3,746	72.8	2,846	68.5	900	90.4
3,715	70.6	2,775	66.8	940	84.9
ATHEROSCLEROSIS (440) 440					
575	12.3	472	12.5	103	11.5
659	14.0	532	13.9	127	14.3
630	13.2	528	13.6	102	11.4
709	14.7	580	14.8	129	14.5
643	13.1	515	12.8	128	14.3
569	11.5	463	11.4	106	11.8
583	11.6	488	11.9	95	10.1
611	11.9	501	12.0	110	11.6
563	10.9	459	11.1	104	10.4
574	10.9	470	11.3	104	9.4
OTHER DISEASES OF ARTERIES, ARTERIOLES AND CAPILLARIES (441-448) 441-448					
481	10.3	413	10.9	68	7.6
548	11.6	459	12.0	89	10.0
526	11.0	442	11.4	84	9.4
571	11.9	487	12.4	84	9.4
562	11.5	477	11.9	85	9.5
562	11.3	464	11.4	98	10.9
571	11.3	466	11.4	105	11.2
509	9.9	430	10.3	79	8.3
566	11.0	468	11.3	98	9.8
411	7.8	355	8.5	56	5.1
PNEUMONIA AND INFLUENZA (470-474,480-486) 480-487					
1,451	31.1	1,049	27.8	402	45.0
1,261	26.7	944	24.7	317	35.7
1,516	31.8	1,134	29.3	382	42.8
1,507	31.3	1,132	28.9	375	42.2
1,354	27.6	1,006	25.1	348	39.0
1,293	26.0	1,011	24.8	282	31.4
1,394	27.7	1,093	26.7	301	32.1
1,121	21.8	865	20.7	256	26.9
1,292	25.1	1,039	25.0	253	25.4
1,025	19.5	793	19.1	232	21.0

NOTE: The heading for each individual table shows the name of the disease, the code from the International Classification of Diseases, Adapted, 8th revision used in 1970-1978 in parentheses, and the code from the International Classification of Diseases, 9th revision used in 1979.

*Less than 0.05 per 100,000 population

(continued)

TABLE 39

RESIDENT DEATHS FROM IMPORTANT CAUSES WITH RATES PER 100,000 POPULATION BY RACE, VIRGINIA, 1970-1979 (continued)

YEAR	TOTAL		WHITE		NONWHITE	
	Number	Rate	Number	Rate	Number	Rate
	BRONCHITIS, EMPHYSEMA, AND ASTHMA (490-493) 490-493					
1970	582	12.5	505	13.4	77	8.6
1971	593	12.6	512	13.4	81	9.1
1972	557	11.7	500	12.9	57	6.4
1973	554	11.5	483	12.3	71	8.0
1974	539	11.0	466	11.6	73	8.2
1975	443	8.9	371	9.1	72	8.0
1976	438	8.7	380	9.3	58	6.2
1977	408	7.9	349	8.3	59	6.2
1978	434	8.4	373	9.0	61	6.1
1979	345	6.6	302	7.3	43	3.9
	CHRONIC LIVER DISEASE AND CIRRHOSIS (571) 571					
1970	582	12.5	454	12.0	128	14.3
1971	611	13.0	468	12.2	143	16.1
1972	666	14.0	532	13.7	134	15.0
1973	727	15.1	559	14.3	168	18.9
1974	686	14.0	517	12.9	169	18.9
1975	634	12.8	514	12.6	120	13.4
1976	629	12.5	476	11.6	153	16.3
1977	538	10.5	410	9.8	128	13.5
1978	553	10.7	413	9.9	140	14.1
1979	559	10.6	446	10.7	113	10.2
	COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND PUERPERIUM** (630-678) 630-676					
1970	21	24.4	10	15.0	11	56.6
1971	10	12.1	3	4.7	7	36.6
1972	14	18.6	6	10.4	8	45.4
1973	13	18.1	4	7.3	9	53.6
1974	8	11.3	3	5.5	5	29.7
1975	9	12.9	3	5.6	6	35.7
1976	6	8.6	2	3.8	4	23.6
1977	11	14.8	10	18.0	1	5.4
1978	7	9.5	2	3.6	5	27.1
1979	7	9.1	4	7.1	3	14.9
	CONGENITAL ANOMALIES (740-759) 740-759					
1970	412	8.8	329	8.7	83	9.3
1971	405	8.6	328	8.6	77	8.7
1972	369	7.7	298	7.7	71	8.0
1973	313	6.5	239	6.1	74	8.3
1974	317	6.5	233	5.8	84	9.4
1975	293	5.9	237	5.8	56	6.2
1976	321	6.4	245	6.0	76	8.1
1977	300	5.8	218	5.2	82	8.6
1978	295	5.7	221	5.3	74	7.4
1979	335	6.4	263	6.3	72	6.5
	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (760-778) 760-779					
1970	1,082	23.2	696	18.4	386	43.2
1971	972	20.6	639	16.7	333	37.5
1972	873	18.3	559	14.4	314	35.2
1973	756	15.7	512	13.1	244	27.4
1974	726	14.8	458	11.4	268	30.0
1975	697	14.0	431	10.6	266	29.6
1976	587	11.7	341	8.3	246	26.3
1977	613	11.9	352	8.4	261	27.5
1978	480	9.3	272	6.6	208	20.9
1979	651	12.4	391	9.4	260	23.5

TOTAL		WHITE		NONWHITE	
Number	Rate	Number	Rate	Number	Rate
ACCIDENTS, ALL TYPES (E800-E949) E800-E949					
2,588	55.5	1,866	49.5	722	80.9
2,585	54.8	1,916	50.1	669	75.3
2,692	56.5	2,008	51.9	684	76.6
2,741	57.0	2,032	51.8	709	79.7
2,540	51.8	2,008	50.0	532	59.6
2,508	50.5	1,921	47.2	587	65.4
2,385	47.4	1,816	44.3	569	60.8
2,597	50.6	1,946	46.5	651	68.5
2,404	46.7	1,821	43.9	583	58.6
2,213	42.1	1,717	41.4	496	44.8
MOTOR VEHICLE ACCIDENTS (E810-E823) E810-E825					
1,241	26.6	909	24.1	332	37.2
1,186	25.2	902	23.6	284	32.0
1,227	25.8	943	24.4	284	31.8
1,250	26.0	944	24.1	306	34.4
1,050	21.4	844	21.0	206	23.1
1,029	20.7	821	20.2	208	23.2
1,029	20.4	810	19.8	219	23.4
1,191	23.2	918	21.9	273	28.7
1,081	21.0	848	20.4	233	23.4
1,002	19.1	820	19.7	182	16.4
ALL OTHER ACCIDENTS (E800-E807,E825-E949) E800-E807,E826-E949					
1,347	28.9	957	25.4	390	43.7
1,399	29.7	1,014	26.5	385	43.3
1,465	30.8	1,065	27.5	400	44.8
1,491	31.0	1,088	27.7	403	45.3
1,490	30.4	1,164	29.0	326	36.5
1,479	29.8	1,100	27.0	379	42.2
1,356	26.9	1,006	24.6	350	37.4
1,406	27.4	1,028	24.6	378	39.8
1,323	25.7	973	23.4	350	35.2
1,211	23.0	897	21.6	314	28.4
SUICIDE (E950-E959) E950-E959					
576	12.3	524	13.9	52	5.8
617	13.1	561	14.7	56	6.3
697	14.6	636	16.4	61	6.8
679	14.1	624	15.9	55	6.2
713	14.5	643	16.0	70	7.8
760	15.3	700	17.2	60	6.7
795	15.8	724	17.7	71	7.6
807	15.7	721	17.2	86	9.0
732	14.2	660	15.9	72	7.2
775	14.7	693	16.7	82	7.4
HOMICIDE (E960-E978) E960-E978					
438	9.4	181	4.8	257	28.8
447	9.5	193	5.0	254	28.6
517	10.9	211	5.5	306	34.3
547	11.4	259	6.6	288	32.4
572	11.7	269	6.7	303	33.9
598	12.0	279	6.9	319	35.5
498	9.9	238	5.8	260	27.8
482	9.4	237	5.7	245	25.8
480	9.3	236	5.7	244	24.5
501	9.5	262	6.3	239	21.6

NOTE: The heading for each individual table shows the name of the disease, the code from the International Classification of Diseases, Adapted, 8th revision used in 1970-1978 in parentheses, and the code from the International Classification of Diseases, 9th revision used in 1979.

*Less than 0.05 per 100,000 population
**Rates per 100,000 live births

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
ALL CAUSES	Total	40,798	1,135	151	97	144	392	557	499	502	604	815	1,359	2,148	3,200	3,927	4,777	5,108	5,023	4,522	5,831	7
	M W	17,449	430	57	39	81	236	346	245	253	290	377	608	994	1,535	1,981	2,275	2,351	2,036	1,669	1,646	
	F W	14,300	282	45	27	34	88	85	108	112	138	185	348	532	800	972	1,340	1,692	2,002	2,144	3,365	1
	M Nw	5,124	213	27	16	17	48	92	111	98	109	160	251	394	570	596	681	577	491	332	337	4
	F Nw	3,925	210	22	15	12	20	34	35	39	67	93	152	228	295	378	481	488	494	377	483	2
Certain other intestinal infections (007-009)	Total	6	2																		4	
	M W																					
	F W	4	1																		3	
	M Nw																					
	F Nw	2	1																		1	
Tuberculosis, all forms (010-018)	Total	44							1	1	2	1	2	3	2	7	5	4	4	4	8	
	M W	12												1		1	2	2	1	1	3	
	F W	6														2				1	3	
	M Nw	15								1			1	1	2	3	2	2	2	2	1	
	F Nw	11							1		2		1	1		1	1		1	1	1	
Meningococcal infection (036)	Total	15	2	6	2				1		1				2		1					
	M W	6	1	2	1										1		1					
	F W	7	1	3					1		1				1							
	M Nw	2		1	1																	
	F Nw																					
Septicemia (038)	Total	269	13	3	1	1	2		2	4	2	2	4	17	21	23	27	34	43	28	42	
	M W	97	6	1		1			2	2			3	5	10	10	11	10	17	7	12	
	F W	84	3	2	1		1			1	1	1		6	5	3	5	10	12	15	18	
	M Nw	55	4				1			1				5	5	6	8	6	7	5	7	
	F Nw	33									1	1	1	1	1	4	3	8	7	1	5	
Viral hepatitis (070)	Total	11	2					1	1		1	1	1			1	1	1			1	
	M W	5	2								1	1				1						
	F W	3						1					1				1					
	M Nw																					
	F Nw	3							1									1			1	
Syphilis (090-097)	Total	5						1											1		3	
	M W	1						1														
	F W	2																	1		1	
	M Nw	2																			2	
	F Nw																					
Other infectious and parasitic diseases (Residual of 001-139)	Total	78	5	1		1	1	1	6	3	4	4	4	4	7	9	7	5	7	2	7	
	M W	28	4				1	1	1	1	4	1	1	1	5	2	4	2	1			
	F W	31		1		1		1	2			1	2	2	1	4	2	1	5	2	6	
	M Nw	8							2			1				2	1	1	1			
	F Nw	11	1						1	2		1	1	1	1	1		1			1	
Malignant neoplasms (140-208)	Total	8,628	1	19	16	14	24	32	36	79	126	199	365	678	1,020	1,157	1,368	1,192	1,031	703	568	
	M W	3,719		12	12	9	11	18	15	27	49	69	135	269	432	538	637	578	426	291	191	
	F W	3,080	1	3	4	4	6	8	16	37	54	83	135	228	336	346	425	403	411	290	290	
	M Nw	1,063		1		1	3	3	2	5	8	17	50	104	160	165	191	122	114	68	49	
	F Nw	766		3			4	3	3	10	15	30	45	77	92	108	115	89	80	54	38	

(continued)

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
1. Lip, oral cavity and pharynx (140-149)	Total	188								1	2	7	4	25	30	31	31	23	16	7	11	
	M W	95								1		3	1	13	8	16	19	15	12	1	6	
	F W	47										2	2	3	9	9	7	4	1	5	5	
	M Nw	39									1	1		9	11	5	5	4	2	1		
	F Nw	7									1	1	1		2	1			1			
2. Digestive organs and peritoneum (150-159)	Total	2,164			1		1	6	6	7	27	33	72	145	232	286	326	310	305	220	187	
	M W	845			1		1	2	2	2	11	9	29	65	99	131	137	125	109	74	48	
	F W	785						1	3	3	6	10	14	35	60	77	99	115	135	114	113	
	M Nw	293						2	1	1	3	6	14	27	48	45	51	37	33	16	9	
	F Nw	241						1		1	7	8	15	18	25	33	39	33	28	16	17	
3. Respiratory and intra-thoracic organs (160-165)	Total	2,385							3	9	20	36	110	230	325	409	485	354	215	121	68	
	M W	1,444							3	4	8	24	58	116	187	246	293	248	135	81	41	
	F W	470								2	9	7	17	56	61	77	97	62	45	23	14	
	M Nw	368								1	3	1	24	42	61	68	77	38	29	14	10	
	F Nw	103								2		4	11	16	16	18	18	6	6	3	3	
4. Breast (174-175)	Total	693							5	15	19	33	58	79	105	76	84	77	72	37	33	
	M W	3												2						1		
	F W	550							4	10	16	25	49	59	87	58	67	60	58	29	28	
	M Nw																					
	F Nw	140							1	5	3	8	9	18	18	18	17	17	14	7	5	
5. Genital organs (179-187)	Total	948						2	4	8	13	24	25	45	78	103	144	133	148	116	105	
	M W	335						1	1	2	2	1		4	9	32	49	55	62	64	53	
	F W	368							1	5	9	18	19	29	47	42	48	51	46	22	31	
	M Nw	138												1	7	14	28	19	29	21	19	
	F Nw	107						1	2	1	2	5	6	11	15	15	19	8	11	9	2	
6. Urinary organs (188-189)	Total	309		1				1			3	5	6	12	32	30	48	45	47	46	33	
	M W	169		1							3	1	5	5	20	20	25	25	29	24	11	
	F W	89						1				1		3	8	5	14	14	12	12	19	
	M Nw	30										1	1	1	2	4	5	3	5	5	3	
	F Nw	21										2		3	2	1	4	3	1	5		
7. Other and unspecified sites (170-173,190-199)	Total	1,196		11	3	4	15	11	9	24	24	37	63	96	151	162	147	143	127	92	77	
	M W	508		7	1	4	6	7	6	14	16	23	27	45	78	68	65	66	37	22	16	
	F W	464		2	2		4	4	2	9	6	7	24	25	44	54	60	51	70	52	48	
	M Nw	126		1			2		1	1	1	5	9	18	19	21	13	12	9	9	5	
	F Nw	98		1			3				1	2	3	8	10	19	9	14	11	9	8	
8. Leukemia (204-208)	Total	321	1	7	10	9	5	4	7	9	11	14	16	17	18	19	42	39	37	28	28	
	M W	152		4	8	4	3	4	2	2	5	3	9	6	9	11	22	22	17	10	11	
	F W	131	1	1	2	4	1		5	5	6	9	6	8	4	6	13	12	17	15	16	
	M Nw	21				1				1		2	1	3	5	2	3	1		1	1	
	F Nw	17		2			1			1							4	4	3	2		
9. Other neoplasms of lymphatic and hemato-poietic tissues (200-203)	Total	424			2	1	3	8	2	6	7	10	11	29	49	41	61	68	64	36	26	
	M W	168			2	1	1	4	1	2	4	5	6	13	22	14	27	22	25	14	5	
	F W	176					1	2	1	3	2	4	4	10	16	18	20	34	27	18	16	
	M Nw	48					1	1		1		1	1	3	7	6	9	8	7	1	2	
	F Nw	32						1			1			3	4	3	5	4	5	3	3	

(continued)

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
Benign neoplasms and neoplasms of unspecified nature (210-239)	Total	119	1		2	1	2	2	3	3	3	5	3	6	15	10	16	17	7	13	10	
	M W	49			1	1	2	1	3	3	1	2		3	8	6	8	6	1	3		
	F W	45									1	3	2		3	3	4	8	5	8	8	
	M Nw	11	1										1	1	1		1	3		2	1	
	F Nw	14			1			1			1			2	3	1	3		1		1	
Diabetes mellitus (250)	Total	597				1	1		4	8	4	11	15	32	60	63	86	83	83	69	77	
	M W	166							1	1	2	2	5	7	19	15	21	35	24	19	15	
	F W	223				1	1		2	2			3	8	17	18	27	27	32	40	45	
	M Nw	91							1	3	1	6	6	6	11	9	13	9	14	6	6	
	F Nw	117								2	1	3	1	11	13	21	25	12	13	4	11	
Nutritional deficiencies (260-269)	Total	54	1									1	1	1		3	3	7	7	12	18	
	M W	15										1				2	2	1	3	4	2	
	F W	26											1	1				2	3	7	12	
	M Nw	4	1																		3	
	F Nw	9														1	1	4	1	1	1	
Anemias (280-285)	Total	64				1	1	1	4		1	2	2	5	2	5	6	8	11	5	10	
	M W	26										1	1	3	1	3	3	4	6	2	2	
	F W	19				1			1				1			1	2	2	2	2	7	
	M Nw	9					1		3		1	1		2			1					
	F Nw	10						1							1	1		2	3	1	1	
Meningitis (320-322)	Total	32	9	1		2				1	1			1	3	1	5	3	1	2	2	
	M W	11	6	1											1		2				1	
	F W	7	1							1							1	2	1	1		
	M Nw	6	1												1	1	2				1	
	F Nw	8	1			2					1			1	1			1		1		
Major Cardiovascular Diseases (390-448)	Total	20,206	18	6	5	7	16	19	49	48	122	221	497	884	1,401	1,855	2,406	2,832	2,936	2,894	3,985	5
	M W	8,356	2	1	2	4	9	7	15	27	63	118	249	472	740	1,009	1,169	1,259	1,146	1,014	1,050	
	F W	7,628	8	2	2	1	6	5	14	7	19	31	95	151	270	394	636	954	1,207	1,430	2,395	1
	M Nw	2,218	2	2		1	1	3	17	9	21	49	102	169	259	276	344	312	265	179	205	2
	F Nw	2,004	6	1	1	1		4	3	5	19	23	51	92	132	176	257	307	318	271	335	2
1. Diseases of heart (390-398,402,404-429)	Total	15,366	16	6	2	7	12	14	40	32	99	185	421	743	1,163	1,565	1,939	2,211	2,137	2,065	2,705	4
	M W	6,867	2	1	1	4	7	5	13	21	54	106	228	433	663	897	978	1,050	887	755	762	
	F W	5,430	7	2	1	1	4	3	10	4	11	24	73	116	199	312	505	724	851	992	1,590	1
	M Nw	1,675	2	2		1	1	3	14	5	18	39	81	127	200	223	270	232	184	131	140	2
	F Nw	1,394	5	1		1		3	3	2	16	16	39	67	101	133	186	205	215	187	213	1
a. Rheumatic fever and rheumatic heart disease (390-398)	Total	136						1	1		2	3	12	15	14	14	19	24	15	8	8	
	M W	36									1	1	3	3	4	6	3	5	5	3	2	
	F W	83							1			2	7	8	7	7	15	17	9	5	5	
	M Nw	9						1			1		1	3	2		1					
	F Nw	8											1	1	1	1		2	1		1	
b. Hypertensive heart disease (402)	Total	450							2		3	7	13	17	34	46	56	64	70	58	80	
	M W	103										2	4	5	8	11	9	20	15	13	16	
	F W	163											3	3	4	12	21	18	28	29	45	
	M Nw	96							1		3	3	3	6	12	14	15	13	14	5	7	
	F Nw	88							1			2	3	3	10	9	11	13	13	11	12	

(continued)

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
c. Hypertensive heart and renal disease (404)	Total	81									1		2	1	3	5	18	8	13	14	16	
	M W	16												1	1	2	2	2	5	2	3	
	F W	27									1				1	2	5	2	3	2	11	
	M Nw	16											2			1	3	1	2	6	1	
	F Nw	22													1	2	8	3	3	4	1	
d. Ischemic heart disease (410-414)	Total	11,065	1				1		15	24	69	129	314	590	934	1,235	1,456	1,626	1,527	1,424	1,718	2
	M W	5,406					1		7	18	48	85	190	376	574	758	807	824	665	545	508	
	F W	3,743							2	2	6	13	43	81	154	236	357	533	619	691	1,006	
	M Nw	1,081							5	4	10	22	55	90	141	153	176	141	120	79	83	2
	F Nw	835	1						1		5	9	26	43	65	88	116	128	123	109	121	
i. Acute myocardial infarction (410)	Total	6,065	1						11	14	46	70	208	269	594	750	881	986	831	672	631	1
	M W	3,170							4	10	32	50	130	244	382	474	498	524	374	257	191	
	F W	1,916							2	2	5	7	24	53	91	154	226	324	336	331	361	
	M Nw	550							4	2	6	8	34	48	83	75	97	70	59	33	30	1
	F Nw	429	1						1		3	5	20	24	38	47	60	68	62	51	49	
ii. Other ischemic heart disease (411-414)	Total	5,000					1		4	10	23	59	106	221	340	485	575	640	696	752	1,087	1
	M W	2,236					1		3	8	16	35	60	132	192	284	309	300	291	288	317	
	F W	1,827									1	6	19	28	63	82	131	209	283	360	645	
	M Nw	531							1	2	4	14	21	42	58	78	79	71	61	46	53	1
	F Nw	406									2	4	6	19	27	41	56	60	61	58	72	
e. Other diseases of endocardium (424)	Total	113		1							2	2	3	5	10	10	11	25	15	14	15	
	M W	47										1	2	1	6	6	5	13	8	2	3	
	F W	43									1			1	3	2	5	7	5	9	10	
	M Nw	13									1	1	1	3	1		1	2	1	2		
	F Nw	10		1												2		3	1	1	2	
f. All other forms of heart disease (415-423,425-429)	Total	3,521	15	5	2	7	11	13	22	8	22	44	77	115	168	255	379	464	497	547	868	2
	M W	1,259	2	1	1	4	6	5	6	3	5	17	29	47	70	116	152	186	189	190	230	
	F W	1,371	7	2	1	1	4	3	7	2	3	9	20	23	30	53	102	147	187	256	513	1
	M Nw	460	2	2		1	1	2	8	1	3	13	19	25	44	55	74	75	47	39	49	
	F Nw	431	4			1		3	1	2	11	5	9	20	24	31	51	56	74	62	76	1
2. Hypertension (401,403)	Total	140									3	1	2	2	10	10	16	18	30	20	28	
	M W	39									2				3	2	3	6	10	8	5	
	F W	48													1	2	4	4	12	8	17	
	M Nw	21									1		1		2	3	3	4	2	1	3	
	F Nw	32										1	1	2	3	3	6	4	6	3	3	
3. Cerebrovascular diseases (430-438)	Total	3,715	2		3		4	4	8	15	18	30	65	122	177	222	348	487	627	632	951	
	M W	1,036			1		2	2	1	6	6	9	17	30	50	80	123	142	192	172	203	
	F W	1,739	1		1		2	1	4	2	7	7	22	33	52	67	105	196	279	347	613	
	M Nw	453							3	4	2	9	17	36	51	42	64	66	71	41	47	
	F Nw	487	1		1			1		3	3	5	9	23	24	33	56	83	85	72	88	
4. Atherosclerosis (440)	Total	574									1	1	3	2	13	18	34	58	75	117	251	1
	M W	192										1			5	7	18	25	24	46	66	
	F W	278									1			1	4	3	9	16	38	60	146	
	M Nw	38											2	1	1	4	2	7	6	3	12	
	F Nw	66											1		3	4	5	10	7	8	27	1

(continued)

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
5. Other diseases of arteries, arterioles, and capillaries (441-448)	Total	411						1	1	1	1	4	6	15	38	40	69	58	67	60	50	
	M W	222						1	1	1	1	2	4	9	19	23	47	36	33	33	14	
	F W	133												1	14	10	13	14	27	23	29	
	M Nw	31										1	1	5	4	4	5	3	2	3	3	
	F Nw	25										1			1	3	4	5	5	1	4	
Acute bronchitis and bronchiolitis (466)	Total	8	4													1			1	1	1	
	M W	3	2																1			
	F W	4	1													1				1	1	
	M Nw	1	1																			
	F Nw																					
Pneumonia and influenza (480-487)	Total	1,025	15	4	3	2	3	5	8	8	7	11	27	21	41	56	87	111	131	179	306	
	M W	415	3	2	1		1	2	1	2	4	3	11	8	16	24	44	53	58	80	101	
	F W	378	2	1		1	1	1	2	2		4	6	7	7	9	15	33	50	76	161	
	M Nw	146	5	1	1			1	4	3	1	2	7	5	12	19	21	16	14	14	20	
	F Nw	86	5		1		1	1	1	1	2	2	3	1	6	4	7	9	9	9	24	
Chronic obstructive pulmonary diseases (490-496)	Total	1,010	1	2			2	1	1	3		6	15	31	80	147	164	197	176	102	81	1
	M W	591								1		2	7	11	36	88	101	126	100	73	45	
	F W	299		1			1					3	5	15	29	42	52	51	49	22	29	
	M Nw	92		1			1			2			2	2	11	11	11	17	20	6	7	1
	F Nw	28	1					1				1	1	3	4	6		3	7	1		
Ulcer of stomach and duodenum (531-533)	Total	101								2	1	3	2	9	8	9	11	19	11	12	14	
	M W	48								1		1		5	5	2	6	11	8	5	4	
	F W	34								1	1		1		3	6	4	4	1	6	7	
	M Nw	13										1	1	4		1	1	2	1	1	1	
	F Nw	6										1						2	1		2	
Appendicitis (540-543)	Total	11			1			1			1		1			1	2	1	2		1	
	M W	5						1								1	1	1			1	
	F W	5									1		1				1		2			
	M Nw	1			1																	
	F Nw																					
Hernia and intestinal obstruction (550-553,560)	Total	101	1			1	1			2	2	2	2	4	7	5	7	7	16	20	24	
	M W	32	1							1			1		2	1	4	3	6	5	6	
	F W	49								1		1	1	2	2	3	1	3	10	10	15	
	M Nw	14									1	1		2	2	1	2	1		2	2	
	F Nw	6									1				1					3	1	
Chronic liver disease and cirrhosis (571)	Total	559						3	3	12	34	50	79	69	87	79	64	39	24	10	6	
	M W	292						2	1	4	17	27	44	33	47	42	31	23	13	6	2	
	F W	154						1	2	1	9	8	16	26	20	21	24	11	8	3	4	
	M Nw	60								5	5	5	9	7	11	12	4	2				
	F Nw	53								2	3	10	10	3	9	4	5	3	3	1		
Cholelithiasis and other disorders of gall bladder (574-575)	Total	54										1	1		1	2	4	9	9	14	13	
	M W	19											1		1	1	1	5	1	2	7	
	F W	28										1				1	3	4	5	10	4	
	M Nw	3																	2	1		
	F Nw	4																	1	1	2	

(continued)

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
Nephritis, nephrotic syndrome, and nephrosis (580-589)	Total	333	5	1	1		1	1	1	3	2	8	7	13	13	32	36	55	43	41	70	
	M W	119	2							2	1	3	1	4	5	12	9	26	14	15	25	
	F W	93	1		1				1	1		2	2	2	1	4	9	9	16	15	29	
	M Nw	58	2				1	1			1	3	1	4	4	5	5	12	5	8	6	
	F Nw	63		1									3	3	3	11	13	8	8	3	10	
Infections of kidney (590)	Total	56							1		1	1		1	1	3	4	4	9	9	22	
	M W	15							1									2	4	1	6	
	F W	26									1				1	1	2		3	5	13	
	M Nw	6														1			1	2	2	
	F Nw	9										1				1	2	2	1	1	1	
Hyperplasia of prostate (600)	Total	13																2		5	6	
	M W	10																		4	6	
	F W																					
	M Nw	3																2		1		
	F Nw																					
Complications of pregnancy, childbirth, and the puerperium (630-676)	Total	7						5			2											
	M W																					
	F W	4						2			2											
	M Nw																					
	F Nw	3						3														
Congenital anomalies (740-759)	Total	335	222	22	8	10	7	8	4	6	3	4	3	12	7	6	5	3	3	2		
	M W	154	105	9	3	4	1	4	2	3		2	1	7	3	2	3	3	1	1		
	F W	109	64	6	3	4	5	2	2	3	3	1	2	4	3	3	1		2	1		
	M Nw	37	25	4	1	2	1	2						1			1					
	F Nw	35	28	3	1							1			1	1						
Certain conditions originating in the perinatal period (760-779)	Total	651	650				1															
	M W	234	233				1															
	F W	157	157																			
	M Nw	133	133																			
	F Nw	127	127																			
Symptoms and ill-defined conditions (780-799)	Total	320	127	6		2	1	3	5	4	6	2	7	10	10	18	21	14	21	16	46	1
	M W	120	49	2		2		1	1	3	4	2	1	3	5	6	6	6	11	2	16	
	F W	94	24	2				1	3	1			2	2	1	5	8	1	8	12	24	
	M Nw	57	27	1				1	1				2	2	3	5	4	4	1	2	3	1
	F Nw	49	27	1			1				2		2	3	1	2	3	3	1		3	
All other diseases (Residual)	Total	2,564	34	21	15	16	26	23	30	42	49	76	119	135	188	237	271	337	315	253	377	
	M W	978	11	7	6	11	11	6	11	15	20	24	43	61	79	107	117	134	129	78	108	
	F W	934	12	7	7	4	8	4	6	12	9	14	24	28	54	71	84	127	118	133	212	
	M Nw	387	4	5	2		6	5	4	10	12	28	33	28	44	42	40	46	34	26	18	
	F Nw	265	7	2		1	1	8	9	5	8	10	19	18	11	17	30	30	34	16	39	
Accidents (E800-E949)	Total	2,213	18	52	38	77	222	268	185	138	114	87	121	121	130	130	108	85	95	106	118	
	M W	1,199	3	19	11	44	154	189	114	90	67	44	58	55	69	71	52	35	48	42	34	
	F W	518	6	16	9	13	43	39	26	21	12	15	29	28	23	22	24	32	35	48	77	
	M Nw	365	5	9	9	12	17	38	39	21	30	24	28	30	28	21	20	16	7	9	2	
	F Nw	131	4	8	9	8	8	2	6	6	5	4	6	8	10	16	12	2	5	7	5	

(continued)

TABLE 40 - RESIDENT DEATHS BY AGE BY CAUSE, SEX AND RACE, VIRGINIA, 1979 (continued)

CAUSE OF DEATH	Race/ Sex	All Ages	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80-84 Years	85+ Years	Unk.
1. Motor vehicle accidents (E810-E825)	Total	1,002	3	21	19	31	172	184	109	69	62	40	64	46	44	31	35	18	26	21	7	
	M W	578		5	4	14	114	123	66	41	38	25	29	19	25	17	19	9	13	13	4	
	F W	242	2	11	6	11	41	35	20	18	10	6	18	13	7	9	7	9	11	5	3	
	M Nw	142	1	4	4	5	10	24	20	8	10	8	15	11	11	2	7		1	1		
	F Nw	40		1	5	1	7	2	3	2	4	1	2	3	1	3	2		1	2		
2. Home accidents ((Home)E850-E949)	Total	484	11	20	8	12	9	11	17	24	15	23	29	29	35	46	35	30	31	45	54	
	M W	200	1	9		5	6	10	10	13	10	6	15	8	16	22	14	13	14	14	14	
	F W	132	3	2	1		1	1	3	1		6	5	7	8	7	9	7	12	22	37	
	M Nw	96	4	3	3	3	2		3	7	5	8	6	10	8	10	6	9	2	6	1	
	F Nw	56	3	6	4	4			1	3		3	3	4	3	7	6	1	3	3	2	
3. All other accidents (E800-E807, E826-E849, (Other)E850-E949)	Total	727	4	11	11	34	41	73	59	45	37	24	28	46	51	53	38	37	38	40	57	
	M W	421	2	5	7	25	34	56	38	36	19	13	14	28	28	32	19	13	21	15	16	
	F W	144	1	3	2	2	1	3	3	2	2	3	6	8	8	6	8	16	12	21	37	
	M Nw	127		2	2	4	5	14	16	6	15	8	7	9	9	9	7	7	4	2	1	
	F Nw	35	1	1		3	1		2	1	1		1	1	6	6	4	1	1	2	3	
Suicide (E950-E959)	Total	775				4	37	107	85	62	64	74	52	61	61	47	46	26	27	14	8	
	M W	521				3	25	81	56	39	35	55	30	40	40	31	31	22	15	10	8	
	F W	172				1	7	12	18	14	18	13	18	16	18	10	8	4	11	4		
	M Nw	67					4	11	11	8	9	5	1	4	3	5	5		1			
	F Nw	15					1	3		1	2	1	3	1		1	2					
Homicide and legal intervention (E960-E978)	Total	501	1	7	5	4	41	71	66	69	51	40	28	24	32	19	16	10	9	6	2	
	M W	190		1	2		17	31	20	28	22	16	16	4	10	6	9	2	2	4		
	F W	72		1		3	8	8	12	7	6	4	1	3	4	2	1	4	5	2	1	
	M Nw	187	1	2	1	1	12	26	25	29	19	16	6	16	13	10	4	3	2		1	
	F Nw	52		3	2		4	6	9	5	4	4	5	1	5	1	2	1				
Other external causes (E980-E999)	Total	33	3				3	4	3	4		3	1	6	1	1		3			1	
	M W	13					2	2		3		2		1				2			1	
	F W	5					1							3	1							
	M Nw	10	1					1	2	1		1	1	1		1		1				
	F Nw	5	2					1	1					1								

TABLE 41 - FIVE LEADING CAUSES OF DEATH IN SPECIFIED AGE GROUPS BY RACE, VIRGINIA, 1979

Age at Death	Total		White		Nonwhite	
	Number	Percent	Number	Percent	Number	Percent
Under 1 year						
All causes	1,135	100.0	712	100.0	423	100.0
Certain conditions originating in the perinatal period (760-779)	650	57.3	390	54.8	260	61.5
Congenital anomalies (740-759)	222	19.6	169	23.7	53	12.5
All accidents (E800-E949)	18	1.6	9	1.3	9	2.1
Diseases of heart (390-398,402,404-429)	16	1.4	9	1.3	7	1.6
Pneumonia and influenza (480-487)	15	1.3	5	0.7	10	2.4
All other causes	214	18.8	130	18.2	84	19.9
1-4 years						
All causes	151	100.0	102	100.0	49	100.0
All accidents (E800-E949)	52	34.4	35	34.3	17	34.7
Congenital anomalies (740-759)	22	14.6	15	14.7	7	14.3
Malignant neoplasms (140-208)	19	12.6	15	14.7	4	8.2
Homicide (E960-E978)	7	4.6	2	2.0	5	10.2
Meningococcal infection (036)	6	4.0	5	4.9	1	2.0
Diseases of heart (390-398,402,404-429)	6	4.0	3	2.9	3	6.1
All other causes	39	25.8	27	26.5	12	24.5
5-14 years						
All causes	241	100.0	181	100.0	60	100.0
All accidents (E800-E949)	115	47.7	77	42.5	38	63.3
Malignant neoplasms (140-208)	30	12.5	29	16.0	1	1.7
Congenital anomalies (740-759)	18	7.5	14	7.7	4	6.7
Homicide (E960-E978)	9	3.7	5	2.8	4	6.7
Diseases of heart (390-398,402,404-429)	9	3.7	7	3.9	2	3.3
All other causes	60	24.9	49	27.1	11	18.3
15-24 years						
All causes	949	100.0	755	100.0	194	100.0
All accidents (E800-E949)	490	51.6	425	56.3	65	33.5
Suicide (E950-E959)	144	15.2	125	16.5	19	9.8
Homicide (E960-E978)	112	11.8	64	8.5	48	24.7
Malignant neoplasms (140-208)	56	5.9	43	5.7	13	6.7
Diseases of heart (390-398,402,404-429)	26	2.7	19	2.5	7	3.6
All other causes	121	12.8	79	10.5	42	21.7
25-44 years						
All causes	2,420	100.0	1,708	100.0	712	100.0
All accidents (E800-E949)	524	21.7	389	22.8	135	19.0
Malignant neoplasms (140-208)	440	18.2	350	20.5	90	12.6
Diseases of heart (390-398,402,404-429)	356	14.7	243	14.2	113	15.9
Suicide (E950-E959)	285	11.8	248	14.5	37	5.2
Homicide (E960-E978)	226	9.3	115	6.7	111	15.6
All other causes	589	24.3	363	21.3	226	31.7
45-64 years						
All causes	10,634	100.0	7,770	100.0	2,864	100.0
Diseases of heart (390-398,402,404-429)	3,892	36.6	2,921	37.6	971	33.9
Malignant neoplasms (140-208)	3,220	30.3	2,419	31.1	801	28.0
Cerebrovascular diseases (430-438)	586	5.5	351	4.5	235	8.2
All accidents (E800-E949)	502	4.7	355	4.6	147	5.1
Chronic liver disease and cirrhosis (571)	314	3.0	249	3.2	65	2.3
All other causes	2,120	19.9	1,475	19.0	645	22.5
65-74 years						
All causes	9,885	100.0	7,658	100.0	2,227	100.0
Diseases of heart (390-398,402,404-429)	4,150	42.0	3,257	42.5	893	40.1
Malignant neoplasms (140-208)	2,560	25.9	2,043	26.7	517	23.2
Cerebrovascular diseases (430-438)	835	8.4	566	7.4	269	12.1
Chronic obstructive pulmonary diseases (490-496)	361	3.7	330	4.3	31	1.4
Pneumonia and influenza (480-487)	198	2.0	145	1.9	53	2.4
All other causes	1,781	18.0	1,317	17.2	464	20.8
75 and over						
All causes	15,376	100.0	12,862	100.0	2,514	100.0
Diseases of heart (390-398,402,404-429)	6,907	44.9	5,837	45.4	1,070	42.6
Malignant neoplasms (140-208)	2,302	15.0	1,899	14.8	403	16.0
Cerebrovascular diseases (430-438)	2,210	14.4	1,806	14.0	404	16.1
Influenza and pneumonia (480-487)	616	4.0	526	4.1	90	3.6
Atherosclerosis (440)	443	2.9	380	2.9	63	2.5
All other causes	2,898	18.8	2,414	18.8	484	19.2

TABLE 42
RESIDENT ACCIDENTAL DEATHS BY AGE, BY TYPE OF ACCIDENT
VIRGINIA, 1979

Type of Accident	Total	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-34 Years	35-44 Years	45-54 Years	55-64 Years	65-74 Years	75-84 Years	85 & Over
TOTAL DEATHS DUE TO ACCIDENTS	2,213	18	52	38	77	222	268	323	201	242	260	193	201	118
Railway (E800-E807)	14						1	2	3	4	2	2		
Motor vehicle (E810-E825)	1,002	3	21	19	31	172	184	178	102	110	75	53	47	7
Other road vehicle (E826-E829)	7			1	1			2	1	2				
Water transport (E830-E838)	36			2	4	4	5	10	4	1	5	1		
Aircraft (E840-E845)	31		1	1			3	11	10		4	1		
Vehicles not elsewhere classifiable (E846-E848)	6				1		1	1		1	2			
Poisoning by drugs (E850-E858)	37					1	3	9	3	6	5	5	3	2
Poisoning by other solids and liquids (E860-E866)	72		1		1	2	2	4	16	26	16	4		
Poisoning by gases and vapors (E867-E869)	22		1		1	4	3	4	2	3	1	3		
Surgical and medical misadventures and complications (E870-E879)	35		1		1			1		1	13	4	10	4
Falls (E880-E888)	309	1				3	8	13	12	16	33	43	92	88
Fires (E890-E899)	139	1	7	7	6	1		11	9	23	29	25	15	5
Excessive heat or cold or exposure (E900-E904)	39	2				1			7	7	11	9	2	
Insects and animals (E905-E906)	4									2	1		1	
Lightning (E907)	1								1					
Cataclysm (E908-E909)	8					1	2	1			2	1	1	
Drowning and submersion (E910)	125	1	9	5	12	17	24	24	7	5	12	3	6	
Suffocation from inhaled or ingested object (E911-E912)	78	3	3	1	1	1		2	4	9	10	20	14	10
Mechanical suffocation (E913)	21	5	2		3		1	5	2		1	2		
Foreign body entering orifice (E914-E915)	4							1			1		2	
Falling or projected object or caught between objects (E916-E918)	45		2		1		7	13	3	8	5	3	3	
Machinery (E919)	43				1	3	4	6	4	6	12	6	1	
Cutting or piercing instruments (E920)	2										2			
Explosion of pressure vessel (E921)	1						1							
Firearms (E922)	45		2	1	11	9	6	8	1	4	2	1		
Explosive materials (E923)	5							1	1	1	1	1		
Hot substance, corrosive material, steam (E924)	5	1									1	1	1	1
Electric current (E925)	33			1	1	2	8	13	4	1	3			
Over-exertion (E927)	1								1					
Other and unspecified environmental causes (E928)	29	1	2				3	2	2	6	7	3	2	1
Late effects (E929)	12				1	1	2	1	2		3	2		
Drugs causing adverse effects in therapeutic use (E930-E949)	2										1		1	

TABLE 43
RESIDENT HOME ACCIDENTS BY AGE, BY TYPE OF ACCIDENT
VIRGINIA, 1979
(Included in tabulation of all accidental deaths)

Type of Accident	Total	Under 1 Year	1-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-34 Years	35-44 Years	45-54 Years	55-64 Years	65-74 Years	75-84 Years	85 & Over
TOTAL DEATHS DUE TO ACCIDENTS IN THE HOME	484	11	20	8	12	9	11	41	38	58	81	65	76	54
Poisoning by drugs (E850-E858)	11					1		5	2	2	1			
Poisoning by other solids and liquids (E860-E866)	43				1	1	1	3	11	13	11	2		
Poisoning by gases and vapors (E867-E869)	11					1	1	2	1	2	1	3		
Falls (E880-E888)	174	1				1	3	8	5	9	23	23	52	49
Fires (E890-E899)	128	1	7	7	6	1		9	3	20	25	25	14	4
Excessive heat or cold or exposure (E900-E904)	12								2	3	3	2	2	
Insects and animals (E905-906)	2									1			1	
Cataclysm (E908-E909)	1										1			
Drowning and submersion (E910)	13	1	5					1	2	1		1	2	
Suffocation from inhaled or ingested object (E911-E912)	13	3	1							2	3	3	1	
Mechanical suffocation (E913)	13	4	2		2			3	1			1		
Foreign body entering orifice (E914-E915)	2												2	
Falling or projected object or caught between objects (E916-E918)	16		2				1	5		2	3	2	1	
Machinery (E919)	4								1	1	2			
Cutting or piercing instruments (E920)	1										1			
Firearms (E922)	19		2		3	4	3	3	1	2		1		
Explosive materials (E923)	2										1	1		
Hot substance, corrosive material, steam (E924)	5	1									1	1	1	1
Electric current (E925)	10			1			2	2	2		3			
Over-exertion (E927)	1								1					
Other and unspecified environmental causes (E928)	3		1								2			

NOTE: Excludes deaths on the home premises from road vehicles.

TABLE 44 - DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE
BY RACE BY CAUSE, VIRGINIA, 1979

Cause of Death	STATE OF VIRGINIA					
	Place of Occurrence			Place of Residence		
	Total	White	Nonwhite	Total	White	Nonwhite
All causes	40,170	31,059	9,111	40,798	31,749	9,049
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009	6	4	2	6	4	2
3 Tuberculosis, all forms 010-018	48	20	28	44	18	26
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036	13	12	1	15	13	2
7 Septicemia 038	270	184	86	269	181	88
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070	9	6	3	11	8	3
11 Syphilis 090-097	5	3	2	5	3	2
12 Other infectious & parasitic diseases Residual of 001-139	76	57	19	78	59	19
13 Malignant neoplasms 140-208	8,313	6,491	1,822	8,628	6,799	1,829
14 Lip, oral cavity and pharynx 140-149	184	139	45	188	142	46
15 Digestive organs and peritoneum 150-159	2,096	1,566	530	2,164	1,630	534
16 Respiratory & intrathoracic organs. 160-165	2,298	1,827	471	2,385	1,914	471
17 Breast 174-175	674	533	141	693	553	140
18 Genital organs 179-187	935	692	243	948	703	245
19 Urinary organs 188-189	293	244	49	309	258	51
20 Other & unspecified sites 170-173,190-199	1,133	911	222	1,196	972	224
21 Leukemia 204-208	289	249	40	321	283	38
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	411	330	81	424	344	80
23 Benign neoplasms and neoplasms of unspecified nature 210-239	116	88	28	119	94	25
24 Diabetes mellitus 250	595	386	209	597	389	208
25 Nutritional deficiencies 260-269	51	39	12	54	41	13
26 Anemias 280-285	61	42	19	64	45	19
27 Meningitis 320-322	31	16	15	32	18	14
28 Major cardiovascular diseases 390-448	20,082	15,845	4,237	20,206	15,984	4,222
29 Diseases of heart 390-398,402,404-429	15,255	12,179	3,076	15,366	12,297	3,069
30 Rheumatic fever and rheumatic heart disease 390-398	131	114	17	136	119	17
31 Hypertensive heart disease 402	444	261	183	450	266	184
32 Hypertensive heart & renal disease 404	85	44	41	81	43	38
33 Ischemic heart disease 410-414	10,984	9,058	1,926	11,065	9,149	1,916
34 Acute myocardial infarction 410	6,008	5,030	978	6,065	5,086	979
35 Other ischemic heart disease 411-414	4,976	4,028	948	5,000	4,063	937
36 Other diseases of endocardium 424	106	84	22	113	90	23
37 All other forms of heart disease 415-423,425-429	3,505	2,618	887	3,521	2,630	891
38 Hypertension 401,403	136	82	54	140	87	53
39 Cerebrovascular diseases 430-438	3,734	2,784	950	3,715	2,775	940
40 Atherosclerosis 440	557	457	100	574	470	104
41 Other diseases of arteries, arterioles, and capillaries 441-448	400	343	57	411	355	56
42 Acute bronchitis and bronchiolitis 466	7	6	1	8	7	1
43 Pneumonia and influenza 480-487	1,007	773	234	1,025	793	232
44 Chronic obstructive pulmonary diseases. 490-496	982	859	123	1,010	890	120
45 Ulcer of stomach and duodenum 531-533	99	81	18	101	82	19
46 Appendicitis 540-543	10	9	1	11	10	1
47 Hernia & intestinal obstruction 550-553,560	98	78	20	101	81	20
48 Chronic liver disease and cirrhosis 571	536	420	116	559	446	113
49 Cholelithiasis and other disorders of gall bladder 574-575	53	46	7	54	47	7
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	333	206	127	333	212	121
51 Infections of kidney 590	57	41	16	56	41	15
52 Hyperplasia of prostate 600	13	9	4	13	10	3
53 Complications of pregnancy, childbirth, and the puerperium 630-676	6	3	3	7	4	3
54 Congenital anomalies 740-759	300	233	67	335	263	72
55 Certain conditions originating in the perinatal period 760-779	606	344	262	651	391	260
56 Symptoms and ill-defined conditions 780-799	313	208	105	320	214	106
57 All other diseases Residual	2,492	1,841	651	2,564	1,912	652
58 Accidents E800-E949	2,284	1,761	523	2,213	1,717	496
59 Motor vehicle accidents E810-E825	1,073	873	200	1,002	820	182
60 Home accidents (Home) E850-E949	488	334	154	484	332	152
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	723	554	169	727	565	162
62 Suicide E950-E959	769	682	87	775	693	82
63 Homicide and legal intervention E960-E978	504	255	249	501	262	239
64 Other external causes E980-E999	25	11	14	33	18	15

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979

PLANNING DISTRICT 1

Cause of Death	Planning District 1			Lee		Scott		Wise		Norton	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	982	961	21	262	1	259	4	396	14	44	2
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009											
3 Tuberculosis, all forms 010-018	1	1		1							
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036											
7 Septicemia 038	1	1		1							
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070											
11 Syphilis 090-097											
12 Other infectious & parasitic diseases Residual of 001-139	2	2		2							
13 Malignant neoplasms 140-208	179	172	7	40		53	1	74	4	5	2
14 Lip, oral cavity and pharynx 140-149	4	3	1					2	1	1	
15 Digestive organs and peritoneum 150-159	43	42	1	8		12		20	1	2	
16 Respiratory & intrathoracic organs. 160-165	45	44	1	9		17		18			1
17 Breast 174-175	15	13	2	2		3		8	1		1
18 Genital organs 179-187	22	20	2	3		6	1	10	1	1	
19 Urinary organs 188-189	10	10		4		4		2			
20 Other & unspecified sites 170-173,190-199	22	22		7		8		6		1	
21 Leukemia 204-208	7	7		2		2		3			
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	11	11		5		1		5			
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1	1				1					
24 Diabetes mellitus 250	18	16	2	1		3		12	2		
25 Nutritional deficiencies 260-269											
26 Anemias 280-285	3	3				1		1		1	
27 Meningitis 320-322	1	1		1							
28 Major cardiovascular diseases 390-448	486	479	7	134	1	137	1	182	5	26	
29 Diseases of heart 390-398,402,404-429	383	378	5	102		106	1	145	4	25	
30 Rheumatic fever and rheumatic heart disease 390-398	3	3				1		1		1	
31 Hypertensive heart disease 402	4	4				2		2			
32 Hypertensive heart & renal disease 404											
33 Ischemic heart disease 410-414	325	321	4	90		95	1	118	3	18	
34 Acute myocardial infarction 410	195	193	2	44		54		82	2	13	
35 Other ischemic heart disease 411-414	130	128	2	46		41	1	36	1	5	
36 Other diseases of endocardium 424	1	1				1					
37 All other forms of heart disease 415-423,425-429	50	49	1	12		7		24	1	6	
38 Hypertension 401,403	7	7		2		3		2			
39 Cerebrovascular diseases 430-438	78	76	2	25	1	22		28	1	1	
40 Atherosclerosis 440	12	12		3		6		3			
41 Other diseases of arteries, arterioles, and capillaries 441-448	6	6		2				4			
42 Acute bronchitis and bronchiolitis 466											
43 Pneumonia and influenza 480-487	27	27		7		8		11		1	
44 Chronic obstructive pulmonary diseases. 490-496	41	41		14		13		14			
45 Ulcer of stomach and duodenum 531-533	2	1	1			1			1		
46 Appendicitis 540-543	1	1						1			
47 Hernia & intestinal obstruction 550-553,560	1	1						1			
48 Chronic liver disease and cirrhosis 571	11	11		4		2		4		1	
49 Cholelithiasis and other disorders of gall bladder 574-575	1	1				1					
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	8	7	1	3		1		3	1		
51 Infections of kidney 590	3	3		2				1			
52 Hyperplasia of prostate 600											
53 Complications of pregnancy, childbirth, and the puerperium 630-676	1	1		1							
54 Congenital anomalies 740-759	10	10		2				6		2	
55 Certain conditions originating in the perinatal period 760-779	21	20	1	4		4	1	11		1	
56 Symptoms and ill-defined conditions 780-799	3	3		1				1		1	
57 All other diseases Residual	70	69	1	20		14		31	1	4	
58 Accidents E800-E949	57	57		18		10		28		1	
59 Motor vehicle accidents E810-E825	26	26		8		6		12			
60 Home accidents (Home) E850-E949	6	6		2				3		1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	25	25		8		4		13			
62 Suicide E950-E959	19	19		2		7		10			
63 Homicide and legal intervention E960-E978	12	11	1	4		1	1	5		1	
64 Other external causes E980-E999	2	2				2					

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 2

Cause of Death	Planning District 2			Buchanan		Dickenson		Russell		Tazewell	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,091	1,071	20	245	2	164		256	4	406	14
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009											
3 Tuberculosis, all forms 010-018	1	1				1					
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036											
7 Septicemia 038	4	4				4					
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070	1	1				1					
11 Syphilis 090-097											
12 Other infectious & parasitic diseases ... Residual of 001-139	4	4								4	
13 Malignant neoplasms 140-208	179	174	5	45		32		32	2	65	3
14 Lip, oral cavity and pharynx 140-149	2	2				1				1	
15 Digestive organs and peritoneum 150-159	60	60		18		7		7		28	
16 Respiratory & intrathoracic organs. 160-165	46	43	3	9		10		14	1	10	2
17 Breast 174-175	13	13		3		3		4		3	
18 Genital organs 179-187	16	16		5		2		3		6	
19 Urinary organs 188-189	8	8		2		3		2		1	
20 Other & unspecified sites 170-173,190-199	19	17	2	4		4		2	1	7	1
21 Leukemia 204-208	4	4		1						3	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	11	11		3		2				6	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	3	3		2				1			
24 Diabetes mellitus 250	12	11	1			3		2		6	1
25 Nutritional deficiencies 260-269	2	1	1		1	1					
26 Anemias 280-285	1	1								1	
27 Meningitis 320-322											
28 Major cardiovascular diseases 390-448	540	529	11	123	1	87		129	2	190	8
29 Diseases of heart 390-398,402,404-429	416	408	8	97	1	66		94	1	151	6
30 Rheumatic fever and rheumatic heart disease 390-398	1	1								1	
31 Hypertensive heart disease 402	10	10		3		1				6	
32 Hypertensive heart & renal disease 404	3	3				1		1		1	
33 Ischemic heart disease 410-414	341	334	7	86	1	58		76	1	114	5
34 Acute myocardial infarction 410	236	231	5	75	1	45		35	1	76	3
35 Other ischemic heart disease 411-414	105	103	2	11		13		41		38	2
36 Other diseases of endocardium 424											
37 All other forms of heart disease ... 415-423,425-429	61	60	1	8		6		17		29	1
38 Hypertension 401,403	3	3						1		2	
39 Cerebrovascular diseases 430-438	91	89	2	23		15		26		25	2
40 Atherosclerosis 440	15	14	1	2		4		4	1	4	
41 Other diseases of arteries, arterioles, and capillaries 441-448	15	15		1		2		4		8	
42 Acute bronchitis and bronchiolitis 466	1	1				1					
43 Pneumonia and influenza 480-487	31	31		3		4		10		14	
44 Chronic obstructive pulmonary diseases. 490-496	45	44	1	10		4		6		24	1
45 Ulcer of stomach and duodenum 531-533	3	3		1				2			
46 Appendicitis 540-543	1	1						1			
47 Hernia & intestinal obstruction 550-553,560	6	6						3		3	
48 Chronic liver disease and cirrhosis 571	18	18		1		4		4		9	
49 Cholelithiasis and other disorders of gall bladder 574-575	2	2						1		1	
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	4	4						3		1	
51 Infections of kidney 590	1	1								1	
52 Hyperplasia of prostate 600	1	1								1	
53 Complications of pregnancy, childbirth, and the puerperium 630-676											
54 Congenital anomalies 740-759	9	9		1		2		2		4	
55 Certain conditions originating in the perinatal period 760-779	18	18		2		1		9		6	
56 Symptoms and ill-defined conditions 780-799	7	7		3				1		3	
57 All other diseases Residual	79	79		15		6		23		35	
58 Accidents E800-E949	74	73	1	27		5		16		25	1
59 Motor vehicle accidents E810-E825	35	35		17		1		8		9	
60 Home accidents (Home) E850-E949	7	7		2				2		3	
61 All other accidents ... E800-E807,E826-E849 (Other) E850-E949	32	31	1	8		4		6		13	1
62 Suicide E950-E959	26	26		7		5		4		10	
63 Homicide and legal intervention E960-E978	18	18		5		3		7		3	
64 Other external causes E980-E999											

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 3

Cause of Death	Planning District 3			Bland		Carroll		Grayson		Smyth	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,737	1,680	57	50	1	223	2	153	6	301	6
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009											
3 Tuberculosis, all forms 010-018	1	1									
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036	1	1				1					
7 Septicemia 038	8	8				1		2		1	
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070											
11 Syphilis 090-097											
12 Other infectious & parasitic diseases Residual of 001-139	2	2									
13 Malignant neoplasms 140-208	292	283	9	9		39		23	3	52	
14 Lip, oral cavity and pharynx 140-149	4	4								3	
15 Digestive organs and peritoneum 150-159	72	59	3	1		9		5	1	7	
16 Respiratory & intrathoracic organs 160-165	88	87	1	4		5		8		19	
17 Breast 174-175	20	20				6				4	
18 Genital organs 179-187	33	30	3	3		3		2	2	7	
19 Urinary organs 188-189	12	11	1					2		2	
20 Other & unspecified sites 170-173,190-199	41	41		1		11		3		4	
21 Leukemia 204-208	17	17				3				2	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	15	14	1			2		3		4	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	4	4								1	
24 Diabetes mellitus 250	26	24	2	1		1		2		6	
25 Nutritional deficiencies 260-269	3	3								2	
26 Anemias 280-285	1	1						1			
27 Meningitis 320-322	2	1	1							1	
28 Major cardiovascular diseases 390-448	954	923	31	30	1	116	2	81	2	157	4
29 Diseases of heart 390-398,402,404-429	745	725	20	25	1	82	2	70	2	135	3
30 Rheumatic fever and rheumatic heart disease 390-398	13	13		1		1		2		3	
31 Hypertensive heart disease 402	17	16	1	2						4	
32 Hypertensive heart & renal disease 404	1	1									
33 Ischemic heart disease 410-414	571	558	13	17	1	63	2	51	1	92	
34 Acute myocardial infarction 410	386	379	7	11		52	2	40	1	68	
35 Other ischemic heart disease 411-414	185	179	6	6	1	11		11		24	
36 Other diseases of endocardium 424	4	4				1		1			
37 All other forms of heart disease 415-423,425-429	139	133	6	5		17		16	1	36	3
38 Hypertension 401,403	11	10	1	1				2			
39 Cerebrovascular diseases 430-438	167	158	9	3		29		7		20	1
40 Atherosclerosis 440	13	13				3				1	
41 Other diseases of arteries, arterioles, and capillaries 441-448	18	17	1	1		2		2		1	
42 Acute bronchitis and bronchiolitis 466											
43 Pneumonia and influenza 480-487	71	69	2	1		8		5		11	
44 Chronic obstructive pulmonary diseases 490-496	46	45	1	2		4		6		5	
45 Ulcer of stomach and duodenum 531-533	7	7								2	
46 Appendicitis 540-543	1	1									
47 Hernia & intestinal obstruction 550-553,560	3	3				1				1	
48 Chronic liver disease and cirrhosis 571	17	17		2		1		1		1	
49 Cholelithiasis and other disorders of gall bladder 574-575	2	2									
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	11	10	1			2		2		4	1
51 Infections of kidney 590	1	1									
52 Hyperplasia of prostate 600	1	1								1	
53 Complications of pregnancy, childbirth, and the puerperium 630-676											
54 Congenital anomalies 740-759	6	6				1					
55 Certain conditions originating in the perinatal period 760-779	24	23	1	1				2		4	
56 Symptoms and ill-defined conditions 780-799	17	17				4		5			
57 All other diseases Residual	95	91	4	2		23		9	1	19	
58 Accidents E800-E949	94	92	2			14		11		21	1
59 Motor vehicle accidents (Motor) E810-E825	42	41	1			7		5		9	
60 Home accidents (Home) E850-E949	15	14	1			2		3		5	1
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	37	37				5		3		7	
62 Suicide E950-E959	29	29		2		4		3		7	
63 Homicide and legal intervention E960-E978	15	12	3			2				3	
64 Other external causes E980-E999	3	3				1				1	

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 3 (continued)

Cause of Death		Washington		Wythe		Bristol		Galax	
		White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes		413	9	243	10	207	19	90	4
1 Shigellosis and ameblasis	004,006								
2 Certain other intestinal infections	007-009								
3 Tuberculosis, all forms	010-018	1							
4 Whooping cough	033								
5 Streptococcal sore throat, scarlatina and erysipelas	034-035								
6 Meningococcal infection	036								
7 Septicemia	038	2		2					
8 Acute poliomyelitis	045								
9 Measles	055								
10 Viral hepatitis	070								
11 Syphilis	090-097								
12 Other infectious & parasitic diseases ... Residual of	001-139			1				1	
13 Malignant neoplasms	140-208	65	1	38		41	4	16	1
14 Lip, oral cavity and pharynx	140-149			1					
15 Digestive organs and peritoneum	150-159	14		6		13	2	4	
16 Respiratory & intrathoracic organs	160-165	23		13		11		4	1
17 Breast	174-175	2		3		4		1	
18 Genital organs	179-187	8		4		1	1	2	
19 Urinary organs	188-189	4	1	1		1		1	
20 Other & unspecified sites	170-173,190-199	8		4		6		4	
21 Leukemia	204-208	4		4		4			
22 Other neoplasms of lymphatic and hematopoietic tissues	200-203	2		2		1	1		
23 Benign neoplasms and neoplasms of unspecified nature	210-239	1						2	
24 Diabetes mellitus	250	8	1	4		2	1		
25 Nutritional deficiencies	260-269	1							
26 Anemias	280-285								
27 Meningitis	320-322				1				
28 Major cardiovascular diseases	390-448	241	5	124	4	124	11	50	2
29 Diseases of heart	390-398,402,404-429	181	3	93	3	98	6	41	
30 Rheumatic fever and rheumatic heart disease	390-398	5				1			
31 Hypertensive heart disease	402	1		2		7	1		
32 Hypertensive heart & renal disease	404					1			
33 Ischemic heart disease	410-414	143	3	73	1	82	5	37	
34 Acute myocardial infarction	410	91	2	49		40	2	28	
35 Other ischemic heart disease	411-414	52	1	24	1	42	3	9	
36 Other diseases of endocardium	424	2							
37 All other forms of heart disease	415-423,425-429	30		18	2	7		4	
38 Hypertension	401,403	4		1		1	1	1	
39 Cerebrovascular diseases	430-438	49	2	23	1	21	3	6	2
40 Atherosclerosis	440	4		2		2		1	
41 Other diseases of arteries, arterioles, and capillaries	441-448	3		5		2	1	1	
42 Acute bronchitis and bronchiolitis	466								
43 Pneumonia and influenza	480-487	21		11	1	7		5	1
44 Chronic obstructive pulmonary diseases	490-496	9		11		4	1	4	
45 Ulcer of stomach and duodenum	531-533	2		1		2			
46 Appendicitis	540-543					1			
47 Hernia & intestinal obstruction	550-553,560			1					
48 Chronic liver disease and cirrhosis	571	4		4		4			
49 Cholelithiasis and other disorders of gall bladder	574-575	2							
50 Nephritis, nephrotic syndrome, and nephrosis	580-589			2					
51 Infections of kidney	590					1			
52 Hyperplasia of prostate	600								
53 Complications of pregnancy, childbirth, and the puerperium	630-676								
54 Congenital anomalies	740-759	3		2					
55 Certain conditions originating in the perinatal period	760-779	10		3		3	1		
56 Symptoms and ill-defined conditions	780-799			6		1		1	
57 All other diseases	Residual	13	1	11	1	10	1	4	
58 Accidents	E800-E949	20	1	16		6		4	
59 Motor vehicle accidents	E810-E825	7	1	8		2		3	
60 Home accidents (Home)	E850-E949	1		3					
61 All other accidents ... E800-E807,E826-E849 (Other)	E850-E949	12		5		4		1	
62 Suicide	E950-E959	7		3		1		2	
63 Homicide and legal intervention	E960-E978	3		3	3			1	
64 Other external causes	E980-E999								

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 4

Cause of Death	Planning District 4			Floyd		Giles	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,031	971	60	110	5	188	7
1 Shigellosis and amebiasis 004,006							
2 Certain other intestinal infections 007-009							
3 Tuberculosis, all forms 010-018							
4 Whooping cough 033							
5 Streptococcal sore throat, scarlatina and erysipelas 034-035							
6 Meningococcal infection 036	1	1				1	
7 Septicemia 038	4	4					
8 Acute poliomyelitis 045							
9 Measles 055							
10 Viral hepatitis 070							
11 Syphilis 090-097							
12 Other infectious & parasitic diseases ... Residual of 001-139	2	2					
13 Malignant neoplasms 140-208	184	174	10	21		40	
14 Lip, oral cavity and pharynx 140-149	4	4					
15 Digestive organs and peritoneum 150-159	35	31	4	4		10	
16 Respiratory & intrathoracic organs. 160-165	41	38	3	3		11	
17 Breast 174-175	13	13		4		1	
18 Genital organs 179-187	30	29	1	3		8	
19 Urinary organs 188-189	10	9	1	1		1	
20 Other & unspecified sites 170-173,190-199	36	35	1	5		6	
21 Leukemia 204-208	8	8		1		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	7	7				2	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	4	4		2			
24 Diabetes mellitus 250	17	14	3	1	2	2	
25 Nutritional deficiencies 260-269							
26 Anemias 280-285							
27 Meningitis 320-322	2	2					
28 Major cardiovascular diseases 390-448	553	523	30	51	2	99	2
29 Diseases of heart 390-398,402,404-429	440	416	24	42	2	78	2
30 Rheumatic fever and rheumatic heart disease 390-398	5	5		1			
31 Hypertensive heart disease 402	6	6				1	
32 Hypertensive heart & renal disease 404	2	2					
33 Ischemic heart disease 410-414	304	286	18	33	2	57	1
34 Acute myocardial infarction 410	226	216	10	27	1	43	1
35 Other ischemic heart disease 411-414	78	70	8	6	1	14	
36 Other diseases of endocardium 424							
37 All other forms of heart disease ... 415-423,425-429	123	117	6	8		20	1
38 Hypertension 401,403	3	3					
39 Cerebrovascular diseases 430-438	93	87	6	6		15	
40 Atherosclerosis 440	10	10		2		1	
41 Other diseases of arteries, arterioles, and capillaries 441-448	7	7		1		5	
42 Acute bronchitis and bronchiolitis 466	1	1					
43 Pneumonia and influenza 480-487	26	25	1	2		2	1
44 Chronic obstructive pulmonary diseases. 490-496	30	29	1	5		9	1
45 Ulcer of stomach and duodenum 531-533	1	1					
46 Appendicitis 540-543							
47 Hernia & intestinal obstruction 550-553,560	1	1		1			
48 Chronic liver disease and cirrhosis 571	11	10	1	4		4	
49 Cholelithiasis and other disorders of gall bladder 574-575							
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	8	7	1	2		1	
51 Infections of kidney 590							
52 Hyperplasia of prostate 600	1	1					
53 Complications of pregnancy, childbirth, and the puerperium 630-676							
54 Congenital anomalies 740-759	8	8		1		3	
55 Certain conditions originating in the perinatal period 760-779	17	15	2			3	
56 Symptoms and ill-defined conditions 780-799	5	5		1		2	
57 All other diseases Residual	62	57	5	5		9	1
58 Accidents E800-E949	61	56	5	11	1	9	1
59 Motor vehicle accidents E810-E825	40	38	2	9		6	
60 Home accidents (Home) E850-E949	8	6	2	1		1	1
61 All other accidents ... E800-E807,E826-E849 (Other) E850-E949	13	12	1	1	1	2	
62 Suicide E950-E959	24	23	1	2		3	1
63 Homicide and legal intervention E960-E978	8	8		1		1	
64 Other external causes E980-E999							

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 4 (continued)

Cause of Death	Montgomery		Pulaski		Radford	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	317	17	278	21	78	10
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036						
7 Septicemia 038	1		3			
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139	1		1			
13 Malignant neoplasms 140-208	57	3	40	4	16	3
14 Lip, oral cavity and pharynx 140-149	2		1		1	
15 Digestive organs and peritoneum 150-159	9	2	8	1		1
16 Respiratory & intrathoracic organs. 160-165	10		10	2	4	1
17 Breast 174-175	3		3		2	
18 Genital organs 179-187	12		4	1	2	
19 Urinary organs 188-189	3		2		2	1
20 Other & unspecified sites 170-173,190-199	10	1	9		5	
21 Leukemia 204-208	3		3			
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	5					
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1		1			
24 Diabetes mellitus 250	7	1	3		1	
25 Nutritional deficiencies 260-269						
26 Anemias 280-285						
27 Meningitis 320-322	2					
28 Major cardiovascular diseases 390-448	168	8	165	15	40	3
29 Diseases of heart 390-398,402,404-429	145	6	117	12	34	2
30 Rheumatic fever and rheumatic heart disease 390-398	2		2			
31 Hypertensive heart disease 402	5					
32 Hypertensive heart & renal disease 404	1		1			
33 Ischemic heart disease 410-414	99	6	70	8	27	1
34 Acute myocardial infarction 410	70	2	56	5	20	1
35 Other ischemic heart disease 411-414	29	4	14	3	7	
36 Other diseases of endocardium 424						
37 All other forms of heart disease 415-423,425-429	38		44	4	7	1
38 Hypertension 401,403			2		1	
39 Cerebrovascular diseases 430-438	20	2	41	3	5	1
40 Atherosclerosis 440	3		4			
41 Other diseases of arteries, arterioles, and capillaries 441-448			1			
42 Acute bronchitis and bronchiolitis 466					1	
43 Pneumonia and influenza 480-487	11		8		2	
44 Chronic obstructive pulmonary diseases. 490-496	8		4		3	
45 Ulcer of stomach and duodenum 531-533			1			
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560						
48 Chronic liver disease and cirrhosis 571		1	2			
49 Cholelithiasis and other disorders of gall bladder 574-575						
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	1		1	1	2	
51 Infections of kidney 590						
52 Hyperplasia of prostate 600	1					
53 Complications of pregnancy, childbirth, and the puerperium 630-676						
54 Congenital anomalies 740-759	2		2			
55 Certain conditions originating in the perinatal period 760-779	5	2	6		1	
56 Symptoms and ill-defined conditions 780-799					2	
57 All other diseases Residual	21	2	18		4	2
58 Accidents E800-E949	18		14	1	4	2
59 Motor vehicle accidents E810-E825	11		10	1	2	1
60 Home accidents (Home) E850-E949	2		1		1	1
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	5		3		1	
62 Suicide E950-E959	10		6		2	
63 Homicide and legal intervention E960-E978	3		3			
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 5

Cause of Death	Planning District 5			Alleghany		Botetourt		Craig		Roanoke	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	2,426	2,129	297	123	2	192	12	41		479	14
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009	1	1									
3 Tuberculosis, all forms 010-018	7	3	4	1			1			2	
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036											
7 Septicemia 038	13	9	4	2		1	1			1	
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070											
11 Syphilis 090-097	1		1								
12 Other infectious & parasitic diseases Residual of 001-139	2	1	1								
13 Malignant neoplasms 140-208	478	425	53	24	1	30		11		100	3
14 Lip, oral cavity and pharynx 140-149	14	10	4			1				2	
15 Digestive organs and peritoneum 150-159	135	112	23	9	1	5		1		25	1
16 Respiratory & intrathoracic organs. 160-165	114	107	7	2		6		6		24	
17 Breast 174-175	36	33	3	1		4		2		7	1
18 Genital organs 179-187	55	48	7	6		3				9	
19 Urinary organs 188-189	25	22	3			2		2		6	
20 Other & unspecified sites 170-173,190-199	48	47	1	5		6				12	
21 Leukemia 204-208	18	17	1			2				5	1
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	33	29	4	1		1				10	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	7	4	3			3	1				
24 Diabetes mellitus 250	27	20	7	1		1				6	
25 Nutritional deficiencies 260-269	8	7	1	1						1	
26 Anemias 280-285	2	1	1								1
27 Meningitis 320-322											
28 Major cardiovascular diseases 390-448	1,284	1,145	139	62		106	5	20		246	4
29 Diseases of heart 390-398,402,404-429	953	849	104	43		75	4	15		178	2
30 Rheumatic fever and rheumatic heart disease 390-398	9	9				1				2	
31 Hypertensive heart disease 402	32	25	7			2	1			10	
32 Hypertensive heart & renal disease 404	1	1									
33 Ischemic heart disease 410-414	711	643	68	35		58	2	10		126	
34 Acute myocardial infarction 410	347	319	28	19		26		4		65	
35 Other ischemic heart disease 411-414	364	324	40	16		32	2	6		61	
36 Other diseases of endocardium 424	10	7	3					1			
37 All other forms of heart disease 415-423,425-429	190	164	26	8		14	1	4		40	2
38 Hypertension 401,403	7	5	2			1				3	
39 Cerebrovascular diseases 430-438	247	220	27	18		21	1	4		45	2
40 Atherosclerosis 440	49	47	2			8		1		14	
41 Other diseases of arteries, arterioles, and capillaries 441-448	28	24	4	1		1				6	
42 Acute bronchitis and bronchiolitis 466											
43 Pneumonia and influenza 480-487	61	53	8	1		3		2		21	1
44 Chronic obstructive pulmonary diseases. 490-496	56	54	2	4		10				10	
45 Ulcer of stomach and duodenum 531-533	12	10	2							2	
46 Appendicitis 540-543	1	1								1	
47 Hernia & intestinal obstruction 550-553,560	2	2								1	
48 Chronic liver disease and cirrhosis 571	33	32	1	3		1				3	
49 Cholelithiasis and other disorders of gall bladder 574-575	5	4	1			1					
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	23	17	6	1		2		1		5	1
51 Infections of kidney 590	1		1								
52 Hyperplasia of prostate 600	1	1									
53 Complications of pregnancy, childbirth, and the puerperium 630-676											
54 Congenital anomalies 740-759	18	15	3	1						4	
55 Certain conditions originating in the perinatal period 760-779	30	22	8	2		2				7	
56 Symptoms and ill-defined conditions 780-799	19	16	3			1	1			4	1
57 All other diseases Residual	145	124	21	4		15		1		28	1
58 Accidents E800-E949	113	97	16	9	1	11	2	5		22	
59 Motor vehicle accidents E810-E825	52	45	7	4		10	2	3		11	
60 Home accidents (Home) E850-E949	25	21	4	3	1			1		4	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	36	31	5	2		1		1		7	
62 Suicide E950-E959	51	48	3	3		3	1	1		9	1
63 Homicide and legal intervention E960-E978	22	14	8	3		2				6	1
64 Other external causes E980-E999	3	3		1							

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 5 (continued)

Cause of Death		Clifton Forge		Covington		Roanoke City		Salem	
		White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
	All causes	61	15	86	10	960	232	187	12
1	Shigellosis and amebiasis 004,006								
2	Certain other intestinal infections 007-009							1	
3	Tuberculosis, all forms 010-018		1				2		
4	Whooping cough 033								
5	Streptococcal sore throat, scarlatina and erysipelas 034-035								
6	Meningococcal infection 036								
7	Septicemia 038					5	2		1
8	Acute poliomyelitis 045								
9	Measles 055								
10	Viral hepatitis 070								
11	Syphilis 090-097						1		
12	Other infectious & parasitic diseases Residual of 001-139		1					1	
13	Malignant neoplasms 140-208	15		13	4	200	41	32	4
14	Lip, oral cavity and pharynx 140-149				1	4	3	3	
15	Digestive organs and peritoneum 150-159	5		7	1	54	19	6	1
16	Respiratory & intrathoracic organs. 160-165	5		3	1	54	5	7	1
17	Breast 174-175	2				15	2	2	
18	Genital organs 179-187					26	5	4	2
19	Urinary organs 188-189			1	1	11	2		
20	Other & unspecified sites 170-173,190-199	1		1		19	1	3	
21	Leukemia 204-208	1				5		4	
22	Other neoplasms of lymphatic and hematopoietic tissues 200-203	1		1		12	4	3	
23	Benign neoplasms and neoplasms of unspecified nature 210-239					1	2		
24	Diabetes mellitus 250				1	12	6		
25	Nutritional deficiencies 260-269	1		1		3	1		
26	Anemias 280-285					1			
27	Meningitis 320-322								
28	Major cardiovascular diseases 390-448	36	12	55	4	504	111	116	3
29	Diseases of heart 390-398,402,404-429	30	9	44	3	375	83	89	3
30	Rheumatic fever and rheumatic heart disease 390-398					6			
31	Hypertensive heart disease 402		1			11	5	2	
32	Hypertensive heart & renal disease 404					1			
33	Ischemic heart disease 410-414	24	6	36	3	289	54	65	3
34	Acute myocardial infarction 410	9	2	17	2	145	22	34	2
35	Other ischemic heart disease 411-414	15	4	19	1	144	32	31	1
36	Other diseases of endocardium 424					6	3		
37	All other forms of heart disease 415-423,425-429	6	2	8		62	21	22	
38	Hypertension 401,403		1			1	1		
39	Cerebrovascular diseases 430-438	5	2	7	1	99	21	21	
40	Atherosclerosis 440			3		16	2	5	
41	Other diseases of arteries, arterioles, and capillaries 441-448	1		1		13	4	1	
42	Acute bronchitis and bronchiolitis 466								
43	Pneumonia and influenza 480-487	2		2		18	7	4	
44	Chronic obstructive pulmonary diseases. 490-496			1		25	2	4	
45	Ulcer of stomach and duodenum 531-533	1				7	2		
46	Appendicitis 540-543								
47	Hernia & intestinal obstruction 550-553,560					1			
48	Chronic liver disease and cirrhosis 571	2		1			1	4	
49	Cholelithiasis and other disorders of gall bladder 574-575			1		7	1		
50	Nephritis, nephrotic syndrome, and nephrosis 580-589	1		1		9	4		1
51	Infections of kidney 590								
52	Hyperplasia of prostate 600					1			
53	Complications of pregnancy, childbirth, and the puerperium 630-676								
54	Congenital anomalies 740-759			1		8	2	1	1
55	Certain conditions originating in the perinatal period 760-779			1		10	8		
56	Symptoms and ill-defined conditions 780-799			3		5	1	3	
57	All other diseases Residual	1	1	3		62	17	10	2
58	Accidents E800-E949			3		43	13	4	
59	Motor vehicle accidents E810-E825			3		12	5	2	
60	Home accidents (Home) E850-E949					12	3	1	
61	All other accidents E800-E807,E826-E849 (Other) E850-E949					19	5	1	
62	Suicide E950-E959	2				23	1	7	
63	Homicide and legal intervention E960-E978					3	7		
64	Other external causes E980-E999					2			

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 6

Cause of Death		Planning District 6			Augusta		Bath		Highland		Rockbridge	
		Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes		1,788	1,667	121	398	18	64	10	38	-	157	7
1 Shigellosis and amebiasis	004,006											
2 Certain other intestinal infections	007-009											
3 Tuberculosis, all forms	010-018											
4 Whooping cough	033											
5 Streptococcal sore throat, scarlatina and erysipelas	034-035											
6 Meningococcal infection	036											
7 Septicemia	038	10	9	1	3							
8 Acute poliomyelitis	045											
9 Measles	055											
10 Viral hepatitis	070											
11 Syphilis	090-097											
12 Other infectious & parasitic diseases ... Residual of	001-139	3	1	2	1			1				
13 Malignant neoplasms	140-208	379	352	27	70	3	22	3	6		35	1
14 Lip, oral cavity and pharynx	140-149	3	2	1								
15 Digestive organs and peritoneum	150-159	105	99	6	15		7	2	4		10	
16 Respiratory & intrathoracic organs	160-165	97	92	5	19		9		1		7	
17 Breast	174-175	27	25	2	4		1				1	
18 Genital organs	179-187	39	37	2	5		1				7	1
19 Urinary organs	188-189	14	11	3	3	1	1				1	
20 Other & unspecified sites	170-173,190-199	59	53	6	17	1	3	1	1		7	
21 Leukemia	204-208	17	16	1	3	1					2	
22 Other neoplasms of lymphatic and hematopoletic tissues	200-203	18	17	1	4							
23 Benign neoplasms and neoplasms of unspecified nature	210-239	10	8	2	2	1	1				3	
24 Diabetes mellitus	250	26	21	5	2		1	1			2	
25 Nutritional deficiencies	260-269	4	4								3	
26 Anemias	280-285	7	7		2						1	
27 Meningitis	320-322	2	2									
28 Major cardiovascular diseases	390-448	885	832	53	196	8	21	3	22		77	4
29 Diseases of heart	390-398,402,404-429	648	613	35	143	8	18	3	15		64	3
30 Rheumatic fever and rheumatic heart disease	390-398	5	4	1	2							
31 Hypertensive heart disease	402	14	9	5							1	3
32 Hypertensive heart & renal disease	404	1	1									
33 Ischemic heart disease	410-414	491	469	22	116	7	15	1	12		53	
34 Acute myocardial infarction	410	326	311	15	67	7	11	1	8		34	
35 Other ischemic heart disease	411-414	165	158	7	49		4		4		19	
36 Other diseases of endocardium	424	6	6		2		1					
37 All other forms of heart disease	415-423,425-429	131	124	7	23	1	2	3	3		10	
38 Hypertension	401,403	2	2		1							
39 Cerebrovascular diseases	430-438	188	176	12	46		3		5		9	
40 Atherosclerosis	440	30	25	5	6				2		2	1
41 Other diseases of arteries, arterioles, and capillaries	441-448	17	16	1							2	
42 Acute bronchitis and bronchiolitis	466											
43 Pneumonia and influenza	480-487	53	53		20						1	
44 Chronic obstructive pulmonary diseases	490-496	43	40	3	11		1		3		3	
45 Ulcer of stomach and duodenum	531-533	9	9		2				1			
46 Appendicitis	540-543											
47 Hernia & intestinal obstruction	550-553,560	4	4									
48 Chronic liver disease and cirrhosis	571	22	20	2	6		1					
49 Cholelithiasis and other disorders of gall bladder	574-575	4	4		2						1	
50 Nephritis, nephrotic syndrome, and nephrosis	580-589	12	12		5		1		1		1	
51 Infections of kidney	590	1	1									
52 Hyperplasia of prostate	600											
53 Complications of pregnancy, childbirth, and the puerperium	630-676	1	1									
54 Congenital anomalies	740-759	11	11								1	
55 Certain conditions originating in the perinatal period	760-779	21	19	2	4		2		1		1	1
56 Symptoms and ill-defined conditions	780-799	10	6	4	2						1	
57 All other diseases	Residual	108	97	11	24	5	7	1			5	1
58 Accidents	E800-E949	114	107	7	35	1	5	1	1		15	
59 Motor vehicle accidents	E810-E825	57	56	1	24		4				8	
60 Home accidents	(Home) E850-E949	24	19	5	3	1		1			5	
61 All other accidents	E800-E807,E826-E849 (Other) E850-E949	33	32	1	8		1		1		2	
62 Suicide	E950-E959	32	32		5		2		3		5	
63 Homicide and legal intervention	E960-E978	17	15	2	6						2	
64 Other external causes	E980-E999											

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 6 (continued)

Cause of Death	Rockingham		Buena Vista		Harrisonburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	430	12	70	3	134	10
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036						
7 Septicemia 038	2		2			
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139		1				
13 Malignant neoplasms 140-208	87	3	15	3	33	2
14 Lip, oral cavity and pharynx 140-149	1			1		
15 Digestive organs and peritoneum 150-159	23		1		9	
16 Respiratory & intrathoracic organs, 160-165	22		5	1	12	1
17 Breast 174-175	7	1	1	1		
18 Genital organs 179-187	8	1	3		4	
19 Urinary organs 188-189	2		1		2	1
20 Other & unspecified sites 170-173,190-199	12	1	3		3	
21 Leukemia 204-208	3				1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	9		1		2	
23 Benign neoplasms and neoplasms of unspecified nature 210-239					1	
24 Diabetes mellitus 250	10		2		1	1
25 Nutritional deficiencies 260-269						
26 Anemias 280-285	1					
27 Meningitis 320-322						
28 Major cardiovascular diseases 390-448	219	6	32		62	5
29 Diseases of heart 390-398,402,404-429	164	3	24		43	3
30 Rheumatic fever and rheumatic heart disease 390-398	1					
31 Hypertensive heart disease 402	2		3			
32 Hypertensive heart & renal disease 404						
33 Ischemic heart disease 410-414	114	2	12		31	2
34 Acute myocardial infarction 410	93	1	6		25	2
35 Other ischemic heart disease 411-414	21	1	6		6	
36 Other diseases of endocardium 424	2					
37 All other forms of heart disease 415-423,425-429	45	1	9		12	1
38 Hypertension 401,403					1	
39 Cerebrovascular diseases 430-438	46	2	6		15	2
40 Atherosclerosis 440	8	1	1		1	
41 Other diseases of arteries, arterioles, and capillaries 441-448	1		1		2	
42 Acute bronchitis and bronchiolitis 466						
43 Pneumonia and influenza 480-487	13		2		4	
44 Chronic obstructive pulmonary diseases. 490-496	9		2		4	1
45 Ulcer of stomach and duodenum 531-533	2		1			
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560	3				1	
48 Chronic liver disease and cirrhosis 571	7		1		1	
49 Cholelithiasis and other disorders of gall bladder 574-575	1					
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	3					
51 Infections of kidney 590	1					
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676	1					
54 Congenital anomalies 740-759	6		1		1	
55 Certain conditions originating in the perinatal period 760-779	4				2	
56 Symptoms and ill-defined conditions 780-799	2		1			
57 All other diseases Residual	22	1	3		15	
58 Accidents E800-E949	26	1	3		7	
59 Motor vehicle accidents E810-E825	9		2		2	
60 Home accidents (Home) E850-E949	5	1			1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	12		1		4	
62 Suicide E950-E959	7		3		2	
63 Homicide and legal intervention E960-E978	4		2			1
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 6 (continued)

Cause of Death	Lexington		Staunton		Waynesboro	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	63	13	185	34	128	14
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036						
7 Septicemia 038			1	1	1	
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139						
13 Malignant neoplasms 140-208	15	2	43	8	26	2
14 Lip, oral cavity and pharynx 140-149			1			
15 Digestive organs and peritoneum 150-159	8		15	3	7	1
16 Respiratory & intrathoracic organs. 160-165	2		8	3	7	
17 Breast 174-175	2		5		4	
18 Genital organs 179-187	2		6		1	
19 Urinary organs 188-189		1			1	
20 Other & unspecified sites 170-173,190-199	1	1	2	1	4	1
21 Leukemia 204-208			6		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203				1	1	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1			1		
24 Diabetes mellitus 250	1		1	2	1	1
25 Nutritional deficiencies 260-269			1			
26 Anemias 280-285			2		1	
27 Meningitis 320-322	1				1	
28 Major cardiovascular diseases 390-448	30	7	99	13	74	7
29 Diseases of heart 390-398,402,404-429	22	3	66	8	54	4
30 Rheumatic fever and rheumatic heart disease 390-398					1	1
31 Hypertensive heart disease 402		1	2		1	1
32 Hypertensive heart & renal disease 404			1			
33 Ischemic heart disease 410-414	16	2	54	6	46	2
34 Acute myocardial infarction 410	11		33	2	23	2
35 Other ischemic heart disease 411-414	5	2	21	4	23	
36 Other diseases of endocardium 424	1					
37 All other forms of heart disease 415-423,425-429	5		9	2	6	
38 Hypertension 401,403						
39 Cerebrovascular diseases 430-438	8	2	21	3	17	3
40 Atherosclerosis 440		1	4	2	1	
41 Other diseases of arteries, arterioles, and capillaries 441-448		1	8		2	
42 Acute bronchitis and bronchiolitis 466						
43 Pneumonia and influenza 480-487	3		5		5	
44 Chronic obstructive pulmonary diseases. 490-496	2	1	2	1	3	
45 Ulcer of stomach and duodenum 531-533	1				2	
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560						
48 Chronic liver disease and cirrhosis 571			3	2	1	
49 Cholelithiasis and other disorders of gall bladder 574-575						
50 Nephritis, nephrotic syndrome, and nephrosis 580-589			1			
51 Infections of kidney 590						
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676						
54 Congenital anomalies 740-759			1		1	
55 Certain conditions originating in the perinatal period 760-779			4	1	1	
56 Symptoms and ill-defined conditions 780-799		3		1		
57 All other diseases Residual	6		12	1	3	2
58 Accidents E800-E949	3		7	2	5	2
59 Motor vehicle accidents E810-E825	1		3		3	1
60 Home accidents (Home) E850-E949			3	2	2	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	2		1			1
62 Suicide E950-E959			2		3	
63 Homicide and legal intervention E960-E978			1	1		
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 7

Cause of Death	Planning District 7			Clarke		Frederick	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,259	1,199	60	85	14	193	4
1 Shigellosis and ameblasis 004,006							
2 Certain other intestinal infections 007-009							
3 Tuberculosis, all forms 010-018	1	1					
4 Whooping cough 033							
5 Streptococcal sore throat, scarlatina and erysipelas 034-035							
6 Meningococcal infection 036							
7 Septicemia 038	5	5					
8 Acute poliomyelitis 045							
9 Measles 055							
10 Viral hepatitis 070							
11 Syphilis 090-097							
12 Other infectious & parasitic diseases Residual of 001-139	1	1					
13 Malignant neoplasms 140-208	250	242	8	13	1	40	
14 Lip, oral cavity and pharynx 140-149	7	7				2	
15 Digestive organs and peritoneum 150-159	71	67	4	5		11	
16 Respiratory & intrathoracic organs. 160-165	66	65	1	2		12	
17 Breast 174-175	16	16		1		2	
18 Genital organs 179-187	27	26	1	2		4	
19 Urinary organs 188-189	10	10		1		1	
20 Other & unspecified sites 170-173,190-199	30	28	2	1	1	5	
21 Leukemia 204-208	7	7				2	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	16	16		1		1	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	4	4				1	
24 Diabetes mellitus 250	15	15		2		2	
25 Nutritional deficiencies 260-269	2	2					
26 Anemias 280-285							
27 Meningitis 320-322	2	2					
28 Major cardiovascular diseases 390-448	668	637	31	54	10	91	3
29 Diseases of heart 390-398,402,404-429	531	507	24	42	6	72	3
30 Rheumatic fever and rheumatic heart disease 390-398	7	7				2	
31 Hypertensive heart disease 402	14	11	3			4	
32 Hypertensive heart & renal disease 404	4	4					
33 Ischemic heart disease 410-414	365	350	15	34	3	45	2
34 Acute myocardial infarction 410	227	218	9	22	2	27	1
35 Other ischemic heart disease 411-414	138	132	6	12	1	18	1
36 Other diseases of endocardium 424	5	5					
37 All other forms of heart disease 415-423,425-429	136	130	6	8	3	21	1
38 Hypertension 401,403	2	1	1		1		
39 Cerebrovascular diseases 430-438	105	100	5	11	2	15	
40 Atherosclerosis 440	14	14				3	
41 Other diseases of arteries, arterioles, and capillaries 441-448	16	15	1	1	1	1	
42 Acute bronchitis and bronchiolitis 466							
43 Pneumonia and influenza 480-487	29	26	3	1	1	4	
44 Chronic obstructive pulmonary diseases. 490-496	35	31	4	2	2	5	
45 Ulcer of stomach and duodenum 531-533	3	3					
46 Appendicitis 540-543	1	1					
47 Hernia & intestinal obstruction 550-553,560	4	4				1	
48 Chronic liver disease and cirrhosis 571	27	22	5	1		5	1
49 Cholelithiasis and other disorders of gall bladder 574-575	5	5				1	
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	9	8	1	1		2	
51 Infections of kidney 590							
52 Hyperplasia of prostate 600							
53 Complications of pregnancy, childbirth, and the puerperium 630-676							
54 Congenital anomalies 740-759	10	10				1	
55 Certain conditions originating in the perinatal period 760-779	8	7	1			2	
56 Symptoms and ill-defined conditions 780-799	15	15				8	
57 All other diseases Residual	73	70	3	6		8	
58 Accidents E800-E949	58	55	3	4		13	
59 Motor vehicle accidents E810-E825	35	34	1	1		7	
60 Home accidents (Home) E850-E949	9	8	1	1		3	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	14	13	1	2		3	
62 Suicide E950-E959	26	25	1	1		8	
63 Homicide and legal intervention E960-E978	8	8				1	
64 Other external causes E980-E999							

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 7 (continued)

Cause of Death	Page		Shenandoah		Warren		Winchester	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	204	7	283	3	191	20	243	12
1 Shigellosis and amebiasis 004,006								
2 Certain other intestinal infections 007-009								
3 Tuberculosis, all forms 010-018					1			
4 Whooping cough 033								
5 Streptococcal sore throat, scarlatina and erysipelas 034-035								
6 Meningococcal infection 036								
7 Septicemia 038	1		1				3	
8 Acute poliomyelitis 045								
9 Measles 055								
10 Viral hepatitis 070								
11 Syphilis 090-097								
12 Other infectious & parasitic diseases Residual of 001-139					1			
13 Malignant neoplasms 140-208	40	1	51	2	44	4	54	
14 Lip, oral cavity and pharynx 140-149	2				2		1	
15 Digestive organs and peritoneum 150-159	11	1	13	1	12	2	15	
16 Respiratory & intrathoracic organs. 160-165	8		18		8	1	17	
17 Breast 174-175	4		1		2		6	
18 Genital organs 179-187	5		6	1	5		4	
19 Urinary organs 188-189	3		2		1		2	
20 Other & unspecified sites 170-173,190-199	2		9		8	1	3	
21 Leukemia 204-208	1				3		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	4		2		3		5	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1		1		1			
24 Diabetes mellitus 250	3		4		2		2	
25 Nutritional deficiencies 260-269	1						1	
26 Anemias 280-285								
27 Meningitis 320-322	1		1					
28 Major cardiovascular diseases 390-448	115	3	155		98	8	124	7
29 Diseases of heart 390-398,402,404-429	96	2	129		81	7	87	6
30 Rheumatic fever and rheumatic heart disease 390-398	2		2		1			
31 Hypertensive heart disease 402	2		2		1	1	2	2
32 Hypertensive heart & renal disease 404	1				2		1	
33 Ischemic heart disease 410-414	72	2	89		52	6	58	2
34 Acute myocardial infarction 410	46	1	63		32	4	28	1
35 Other ischemic heart disease 411-414	26	1	26		20	2	30	1
36 Other diseases of endocardium 424	1		3		1			
37 All other forms of heart disease 415-423,425-429	18		33		24		26	2
38 Hypertension 401,403			1					
39 Cerebrovascular diseases 430-438	15	1	19		10	1	30	1
40 Atherosclerosis 440	1		5		3		2	
41 Other diseases of arteries, arterioles, and capillaries 441-448	3		1		4		5	
42 Acute bronchitis and bronchiolitis 466								
43 Pneumonia and influenza 480-487	5	1	6		1	1	9	
44 Chronic obstructive pulmonary diseases. 490-496	5		7		6		6	2
45 Ulcer of stomach and duodenum 531-533			1				2	
46 Appendicitis 540-543			1					
47 Hernia & intestinal obstruction 550-553,560							3	
48 Chronic liver disease and cirrhosis 571	5		3		4	3	4	1
49 Cholelithiasis and other disorders of gall bladder 574-575			1		1		2	
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	1		2		2	1		
51 Infections of kidney 590								
52 Hyperplasia of prostate 600								
53 Complications of pregnancy, childbirth, and the puerperium 630-676								
54 Congenital anomalies 740-759	1		2		3		3	
55 Certain conditions originating in the perinatal period 760-779			2		3			1
56 Symptoms and ill-defined conditions 780-799	1		1				5	
57 All other diseases Residual	9	1	25	1	12		10	1
58 Accidents E800-E949	9	1	12		8	2	9	
59 Motor vehicle accidents E810-E825	6		10		4	1	6	
60 Home accidents (Home) E850-E949	2	1			2			
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	1		2		2	1	3	
62 Suicide E950-E959	5		4		3	1	4	
63 Homicide and legal intervention E960-E978	1		3		1		2	
64 Other external causes E980-E999								

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 8

Cause of Death		Planning District 8			Arlington		Fairfax		Loudoun		Prince William	
		Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
	All causes	5,311	4,794	517	1,014	103	2,166	163	260	44	392	42
1	Shigellosis and amebiasis 004,006											
2	Certain other intestinal infections 007-009	1	1				1					
3	Tuberculosis, all forms 010-018	2	1	1		1						
4	Whooping cough 033											
5	Streptococcal sore throat, scarlatina and erysipelas 034-035											
6	Meningococcal infection 036	2	2		2							
7	Septicemia 038	29	28	1	7		11	1	1		2	
8	Acute poliomyelitis 045											
9	Measles 055											
10	Viral hepatitis 070	2	2				2					
11	Syphilis 090-097	1	1				1					
12	Other infectious & parasitic diseases Residual of 001-139	13	11	2	3		4	2			1	
13	Malignant neoplasms 140-208	1,424	1,306	118	283	25	617	43	67	9	101	10
14	Lip, oral cavity and pharynx 140-149	27	25	2	7	1	9				3	
15	Digestive organs and peritoneum 150-159	335	292	43	80	8	130	16	19	2	18	4
16	Respiratory & intrathoracic organs 160-165	382	349	33	78	5	157	14	19	3	31	5
17	Breast 174-175	157	147	10	24	5	75	3	8	1	9	
18	Genital organs 179-187	130	129	9	28	3	55	2	7	3	12	
19	Urinary organs 188-189	47	43	4	11	1	18		4		2	
20	Other & unspecified sites 170-173,190-199	206	197	9	30	1	113	4	5		13	
21	Leukemia 204-208	73	69	4	12		35	3	4		11	1
22	Other neoplasms of lymphatic and hematopoietic tissues 200-203	59	55	4	13	1	25	1	1		2	
23	Benign neoplasms and neoplasms of unspecified nature 210-239	23	20	3	2		6	1	2			
24	Diabetes mellitus 250	97	89	8	10		44	1	6	1	15	3
25	Nutritional deficiencies 260-269	6	6		1		4				1	
26	Anemias 280-285	13	12	1	4		4	1	1			
27	Meningitis 320-322	4	3	1			2				1	
28	Major cardiovascular diseases 390-448	2,313	2,100	213	499	47	899	49	133	25	140	11
29	Diseases of heart 390-398,402,404-429	1,760	1,587	173	383	38	663	39	100	19	115	9
30	Rheumatic fever and rheumatic heart disease 390-398	24	23	1	4		12					
31	Hypertensive heart disease 402	43	32	11	5	3	21	3		3	1	
32	Hypertensive heart & renal disease 404	5	3	2	1						1	
33	Ischemic heart disease 410-414	1,314	1,194	120	305	26	494	28	84	11	88	6
34	Acute myocardial infarction 410	590	544	46	109	8	241	16	52	5	39	3
35	Other ischemic heart disease 411-414	724	650	74	196	18	253	12	32	6	49	3
36	Other diseases of endocardium 424	24	22	2	8		5		2	1	2	1
37	All other forms of heart disease 415-423,425-429	350	313	37	60	9	131	8	14	4	23	2
38	Hypertension 401,403	18	16	2	6	1	5		1	1	2	
39	Cerebrovascular diseases 430-438	387	355	32	81	7	162	8	21	4	19	1
40	Atherosclerosis 440	91	87	4	13	1	44	1	8	1	2	
41	Other diseases of arteries, arterioles, and capillaries 441-448	57	55	2	16		25	1	3		2	1
42	Acute bronchitis and bronchiolitis 466	2	2		1		1					
43	Pneumonia and influenza 480-487	96	80	16	14	4	30	1	3	3	6	1
44	Chronic obstructive pulmonary diseases 490-496	121	120	1	33		51	1	2		10	
45	Ulcer of stomach and duodenum 531-533	11	9	2	5	1	2				1	
46	Appendicitis 540-543											
47	Hernia & intestinal obstruction 550-553,560	15	12	3			8	1	2		1	1
48	Chronic liver disease and cirrhosis 571	111	101	10	23	1	41	2	4		9	1
49	Cholelithiasis and other disorders of gall bladder 574-575	2	2				1					
50	Nephritis, nephrotic syndrome, and nephrosis 580-589	41	35	6	9	2	16		1	1	3	1
51	Infections of kidney 590	4	4		1		2					
52	Hyperplasia of prostate 600											
53	Complications of pregnancy, childbirth, and the puerperium 630-676	1		1								
54	Congenital anomalies 740-759	54	44	10	6	1	23	4		1	7	2
55	Certain conditions originating in the perinatal period 760-779	80	60	20	4	3	32	14	5		10	2
56	Symptoms and ill-defined conditions 780-799	37	28	9	1	3	14	5	2		5	
57	All other diseases Residual	300	267	33	55	6	112	10	11	2	22	3
58	Accidents E800-E949	321	289	32	30	5	147	16	17	1	48	4
59	Motor vehicle accidents E810-E825	141	128	13	7	1	67	10	9		27	2
60	Home accidents (Home) E850-E949	66	56	10	10	2	34	5	2	1	3	
61	All other accidents E800-E807,E826-E849 (Other) E850-E949	114	105	9	13	2	46	1	6		18	2
62	Suicide E950-E959	141	131	10	17	3	76	5	3		7	2
63	Homicide and legal intervention E960-E978	39	26	13	3	1	14	5		1	2	1
64	Other external causes E980-E999	5	2	3	1		1	1				

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 8 (continued)

Cause of Death	Alexandria		Fairfax City		Falls Church		Manassas		Manassas Park	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	634	146	114	2	125	5	69	11	20	1
1 Shigellosis and amebiasis 004,006										
2 Certain other intestinal infections 007-009										
3 Tuberculosis, all forms 010-018	1									
4 Whooping cough 033										
5 Streptococcal sore throat, scarlatina and erysipelas 034-035										
6 Meningococcal infection 036										
7 Septicemia 038	5		2							
8 Acute poliomyelitis 045										
9 Measles 055										
10 Viral hepatitis 070										
11 Syphilis 090-097										
12 Other infectious & parasitic diseases Residual of 001-139	1				2					
13 Malignant neoplasms 140-208	145	29	32	1	37	1	18		6	
14 Lip, oral cavity and pharynx 140-149	5	1	1							
15 Digestive organs and peritoneum 150-159	29	13	4		9		3			
16 Respiratory & intrathoracic organs 160-165	36	6	8		11		6		3	
17 Breast 174-175	24	1	1		2		3		1	
18 Genital organs 179-187	16	1	8		2		1			
19 Urinary organs 188-189	8	1		1		1				
20 Other & unspecified sites 170-173,190-199	15	4	6		9		4		2	
21 Leukemia 204-208	3		2		1		1			
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	9	2	2		3					
23 Benign neoplasms and neoplasms of unspecified nature 210-239	6	1	2		2			1		
24 Diabetes mellitus 250	11	3	2		1					
25 Nutritional deficiencies 260-269										
26 Anemias 280-285	3									
27 Meningitis 320-322		1								
28 Major cardiovascular diseases 390-448	303	70	41	1	48	3	29	6	8	1
29 Diseases of heart 390-398,402,404-429	226	58	32	1	35	3	26	5	7	1
30 Rheumatic fever and rheumatic heart disease 390-398	5	1	1		1					
31 Hypertensive heart disease 402	2	2	2				1			
32 Hypertensive heart & renal disease 404		2	1							
33 Ischemic heart disease 410-414	158	43	20	1	23	2	16	2	6	1
34 Acute myocardial infarction 410	66	12	7		15	1	12		3	1
35 Other ischemic heart disease 411-414	92	31	13	1	8	1	4	2	3	
36 Other diseases of endocardium 424	4		1							
37 All other forms of heart disease 415-423,425-429	57	10	7		11	1	9	3	1	
38 Hypertension 401,403	1				1					
39 Cerebrovascular diseases 430-438	56	11	5		7		3	1	1	
40 Atherosclerosis 440	14	1	4		2					
41 Other diseases of arteries, arterioles, and capillaries 441-448	6				3					
42 Acute bronchitis and bronchiolitis 466										
43 Pneumonia and influenza 480-487	22	7	3		1		1			
44 Chronic obstructive pulmonary diseases 490-496	15		2		4		3			
45 Ulcer of stomach and duodenum 531-533	1	1								
46 Appendicitis 540-543										
47 Hernia & intestinal obstruction 550-553,560	1	1								
48 Chronic liver disease and cirrhosis 571	16	6	1		5		1		1	
49 Cholelithiasis and other disorders of gall bladder 574-575	1									
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	6	1						1		
51 Infections of kidney 590	1									
52 Hyperplasia of prostate 600										
53 Complications of pregnancy, childbirth, and the puerperium 630-676		1								
54 Congenital anomalies 740-759	6	1	2			1				
55 Certain conditions originating in the perinatal period 760-779	5	1	2		2					
56 Symptoms and ill-defined conditions 780-799	4	1					2			
57 All other diseases Residual	40	9	8		9		7	3	3	
58 Accidents E800-E949	23	6	10		7		5		2	
59 Motor vehicle accidents E810-E825	5		7		1		3		2	
60 Home accidents (Home) E850-E949	4	2			3					
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	14	4	3		3		2			
62 Suicide E950-E959	14		7		5		2			
63 Homicide and legal intervention E960-E978	4	5			2		1			
64 Other external causes E980-E999		2								

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 9

Cause of Death		Planning District 9			Culpeper		Fauquier	
		Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes		863	673	190	147	43	224	70
1 Shigellosis and amebiasis	004,006							
2 Certain other intestinal infections	007-009	1		1				1
3 Tuberculosis, all forms	010-018							
4 Whooping cough	033							
5 Streptococcal sore throat, scarlatina and erysipelas	034-035							
6 Meningococcal infection	036	1		1				
7 Septicemia	038	7	4	3		2		
8 Acute poliomyelitis	045							
9 Measles	055							
10 Viral hepatitis	070							
11 Syphilis	090-097							
12 Other infectious & parasitic diseases ..... Residual	of 001-139	3	3		2			
13 Malignant neoplasms	140-208	165	134	31	29	4	41	12
14 Lip, oral cavity and pharynx	140-149	6	5	1		1	1	
15 Digestive organs and peritoneum	150-159	47	35	12	9	1	11	7
16 Respiratory & intrathoracic organs	160-165	37	31	6	8	1	12	3
17 Breast	174-175	8	5	3			2	
18 Genital organs	179-187	19	16	3	2		5	2
19 Urinary organs	188-189	2	2		1			
20 Other & unspecified sites	170-173,190-199	24	19	5	7	1	3	
21 Leukemia	204-208	8	8		1		3	
22 Other neoplasms of lymphatic and hematopoietic tissues	200-203	14	13	1	1		4	
23 Benign neoplasms and neoplasms of unspecified nature	210-239	1	1		1			
24 Diabetes mellitus	250	10	5	5		1	5	3
25 Nutritional deficiencies	260-269							
26 Anemias	280-285							
27 Meningitis	320-322							
28 Major cardiovascular diseases	390-448	458	359	99	78	25	115	33
29 Diseases of heart	390-398,402,404-429	343	270	73	59	18	83	23
30 Rheumatic fever and rheumatic heart disease	390-398	4	4				1	
31 Hypertensive heart disease	402	16	13	3		2	7	
32 Hypertensive heart & renal disease	404	1	1		1			
33 Ischemic heart disease	410-414	232	182	50	36	12	62	17
34 Acute myocardial infarction	410	145	113	32	16	6	35	11
35 Other ischemic heart disease	411-414	87	69	18	20	6	27	6
36 Other diseases of endocardium	424	1	1					
37 All other forms of heart disease	415-423,425-429	89	69	20	22	4	13	6
38 Hypertension	401,403	1	1				1	
39 Cerebrovascular diseases	430-438	90	68	22	16	7	21	8
40 Atherosclerosis	440	13	11	2	1		8	1
41 Other diseases of arteries, arterioles, and capillaries	441-448	11	9	2	2		2	1
42 Acute bronchitis and bronchiolitis	466							
43 Pneumonia and influenza	480-487	22	18	4	2		11	3
44 Chronic obstructive pulmonary diseases	490-496	24	21	3	2		7	2
45 Ulcer of stomach and duodenum	531-533	3	3				1	
46 Appendicitis	540-543							
47 Hernia & intestinal obstruction	550-553,560	2	2		1			
48 Chronic liver disease and cirrhosis	571	11	9	2	2		5	1
49 Cholelithiasis and other disorders of gall bladder	574-575	1	1				1	
50 Nephritis, nephrotic syndrome, and nephrosis	580-589	7	6	1	3		2	1
51 Infections of kidney	590	2	2					
52 Hyperplasia of prostate	600	1		1				1
53 Complications of pregnancy, childbirth, and the puerperium	630-676							
54 Congenital anomalies	740-759	1	1		1			
55 Certain conditions originating in the perinatal period	760-779	8	5	3		1	4	
56 Symptoms and ill-defined conditions	780-799	6	4	2	2	1	1	
57 All other diseases	Residual	48	34	14	8	3	9	5
58 Accidents	E800-E949	52	41	11	12	3	13	5
59 Motor vehicle accidents	[illegible]	23	16	7	6	1	5	4
60 Home accidents (Home)	E850-E949	4	3	1			2	
61 All other accidents ..... E800-E807,E826-E849 (Other)	E850-E949	25	22	3	6	2	6	1
62 Suicide	E950-E959	15	13	2	3		6	1
63 Homicide and legal intervention	E960-E978	14	7	7	1	3	3	2
64 Other external causes	E980-E999							

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 9 (continued)

Cause of Death		Madison		Orange		Rappahannock	
		White	Nonwh	White	Nonwh	White	Nonwh
All causes		81	27	161	41	60	9
1 Shigellosis and amebiasis	004,006						
2 Certain other intestinal infections	007-009						
3 Tuberculosis, all forms	010-018						
4 Whooping cough	033						
5 Streptococcal sore throat, scarlatina and erysipelas	034-035						
6 Meningococcal infection	036						1
7 Septicemia	038			3	1	1	
8 Acute poliomyelitis	045						
9 Measles	055						
10 Viral hepatitis	070						
11 Syphilis	090-097						
12 Other infectious & parasitic diseases	Residual of 001-139	1					
13 Malignant neoplasms	140-208	14	6	40	9	10	
14 Lip, oral cavity and pharynx	140-149			3		1	
15 Digestive organs and peritoneum	150-159	2	2	10	2	3	
16 Respiratory & intrathoracic organs	160-165	1		9	2	1	
17 Breast	174-175			3	3		
18 Genital organs	179-187	5		3	1	1	
19 Urinary organs	188-189					1	
20 Other & unspecified sites	170-173,190-199	3	4	5		1	
21 Leukemia	204-208			3		1	
22 Other neoplasms of lymphatic and hematopoietic tissues	200-203	3		4	1	1	
23 Benign neoplasms and neoplasms of unspecified nature	210-239						
24 Diabetes mellitus	250						1
25 Nutritional deficiencies	260-269						
26 Anemias	280-285						
27 Meningitis	320-322						
28 Major cardiovascular diseases	390-448	42	13	91	22	33	6
29 Diseases of heart	390-398,402,404-429	35	10	64	17	29	5
30 Rheumatic fever and rheumatic heart disease	390-398	1		1		1	
31 Hypertensive heart disease	402	3		2	1	1	
32 Hypertensive heart & renal disease	404						
33 Ischemic heart disease	410-414	23	9	44	11	17	1
34 Acute myocardial infarction	410	16	6	36	8	10	1
35 Other ischemic heart disease	411-414	7	3	8	3	7	
36 Other diseases of endocardium	424			1			
37 All other forms of heart disease	415-423,425-429	8	1	16	5	10	4
38 Hypertension	401,403						
39 Cerebrovascular diseases	430-438	5	3	22	4	4	
40 Atherosclerosis	440	1		1			1
41 Other diseases of arteries, arterioles, and capillaries	441-448	1		4	1		
42 Acute bronchitis and bronchiolitis	466						
43 Pneumonia and influenza	480-487	4		1	1		
44 Chronic obstructive pulmonary diseases	490-496	6		5	1	1	
45 Ulcer of stomach and duodenum	531-533			2			
46 Appendicitis	540-543						
47 Hernia & intestinal obstruction	550-553,560	1					
48 Chronic liver disease and cirrhosis	571		1	2			
49 Cholelithiasis and other disorders of gall bladder	574-575						
50 Nephritis, nephrotic syndrome, and nephrosis	580-589			1			
51 Infections of kidney	590	1		1			
52 Hyperplasia of prostate	600						
53 Complications of pregnancy, childbirth, and the puerperium	630-676						
54 Congenital anomalies	740-759						
55 Certain conditions originating in the perinatal period	760-779	1			2		
56 Symptoms and ill-defined conditions	780-799			1	1		
57 All other diseases	Residual	4	3	6	2	7	1
58 Accidents	E800-E949	5	2	5	1	6	
59 Motor vehicle accidents	E810-E825	2	1	1	1	2	
60 Home accidents	(Home) E850-E949		1	1			
61 All other accidents	E800-E807,E826-E849 (Other) E850-E949	3		3		4	
62 Suicide	E950-E959	1	1	1		2	
63 Homicide and legal intervention	E960-E978	1	1	2	1		
64 Other external causes	E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 10

Cause of Death	Planning District 10			Albemarle		Fluvanna		Greene	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,185	930	255	299	47	75	28	43	6
1 Shigellosis and amebiasis 004,006									
2 Certain other intestinal infections 007-009									
3 Tuberculosis, all forms 010-018	1		1				1		
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036									
7 Septicemia 038	8	5	3	1	1	1			1
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070									
11 Syphilis 090-097									
12 Other infectious & parasitic diseases Residual of 001-139									
13 Malignant neoplasms 140-208	221	184	37	60	5	9	3	10	2
14 Lip, oral cavity and pharynx 140-149	8	5	3	2				1	
15 Digestive organs and peritoneum 150-159	47	41	6	16	1	1		1	2
16 Respiratory & intrathoracic organs. 160-165	63	53	10	18	1	4		2	
17 Breast 174-175	13	9	4	2	1	1	1		
18 Genital organs 179-187	25	21	4	4	1	1	1	1	
19 Urinary organs 188-189	8	8		1					
20 Other & unspecified sites 170-173,190-199	31	27	4	11		1	1	3	
21 Leukemia 204-208	13	10	3	3				1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	13	10	3	3	1	1		1	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	2	2						1	
24 Diabetes mellitus 250	10	4	6	1	1	1	1		
25 Nutritional deficiencies 260-269	3	2	1	1					
26 Anemias 280-285	1	1							
27 Meningitis 320-322									
28 Major cardiovascular diseases 390-448	610	483	127	154	28	37	10	25	2
29 Diseases of heart 390-398,402,404-429	461	367	94	117	20	28	9	18	2
30 Rheumatic fever and rheumatic heart disease 390-398	2	2							
31 Hypertensive heart disease 402	20	12	8	4		1	1		
32 Hypertensive heart & renal disease 404	1	1						1	
33 Ischemic heart disease 410-414	296	245	51	81	10	14	4	12	2
34 Acute myocardial infarction 410	154	128	26	31	4	10	1	7	1
35 Other ischemic heart disease 411-414	142	117	25	50	6	4	3	5	1
36 Other diseases of endocardium 424	3	3		2					
37 All other forms of heart disease 415-423,425-429	139	104	35	30	10	13	1	5	
38 Hypertension 401,403	5	4	1	1					
39 Cerebrovascular diseases 430-438	111	86	25	22	5	8	1	6	
40 Atherosclerosis 440	25	19	6	11	3	1		1	
41 Other diseases of arteries, arterioles, and capillaries 441-448	8	7	1	3					
42 Acute bronchitis and bronchiolitis 466									
43 Pneumonia and influenza 480-487	36	27	9	6	1	4	1		
44 Chronic obstructive pulmonary diseases. 490-496	27	22	5	2	1	5			1
45 Ulcer of stomach and duodenum 531-533	3	2	1	1					
46 Appendicitis 540-543									
47 Hernia & intestinal obstruction 550-553,560	2	2		1					
48 Chronic liver disease and cirrhosis 571	17	13	4			1	3		
49 Cholelithiasis and other disorders of gall bladder 574-575	1	1		1					
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	10	4	6	2					
51 Infections of kidney 590	1	1							
52 Hyperplasia of prostate 600									
53 Complications of pregnancy, childbirth, and the puerperium 630-676									
54 Congenital anomalies 740-759	11	7	4	4			1		
55 Certain conditions originating in the perinatal period 760-779	17	13	4	7	1	1	2		
56 Symptoms and ill-defined conditions 780-799	15	12	3	3	1	2	1	1	
57 All other diseases Residual	80	66	14	23		8	3	3	
58 Accidents E800-E949	78	56	22	19	7	5	2	2	
59 Motor vehicle accidents E810-E825	45	36	9	12	2	2	2	1	
60 Home accidents (Home) E850-E949	10	7	3	1	1	2		1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	23	13	10	6	4	1			
62 Suicide E950-E959	18	17	1	9	1			1	
63 Homicide and legal intervention E960-E978	13	6	7	4		1			
64 Other external causes E980-E999									

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 10 (continued)

Cause of Death	Louisa		Nelson		Charlottesville	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	105	62	107	32	301	80
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036						
7 Septicemia 038	1	1			2	
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139						
13 Malignant neoplasms 140-208	22	6	17	3	66	18
14 Lip, oral cavity and pharynx 140-149		1		1	2	1
15 Digestive organs and peritoneum 150-159	7	2	4		12	1
16 Respiratory & intrathoracic organs, 160-165	7	1	6		16	8
17 Breast 174-175			1		5	2
18 Genital organs 179-187	1	1	4		10	1
19 Urinary organs 188-189	2				5	
20 Other & unspecified sites 170-173,190-199	2	1	2	1	8	1
21 Leukemia 204-208	2			1	4	2
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	1				4	2
23 Benign neoplasms and neoplasms of unspecified nature 210-239			1			
24 Diabetes mellitus 250	1	3	1			1
25 Nutritional deficiencies 260-269			1			1
26 Anemias 280-285					1	
27 Meningitis 320-322						
28 Major cardiovascular diseases 390-448	53	38	65	19	149	30
29 Diseases of heart 390-398,402,404-429	38	27	48	10	118	26
30 Rheumatic fever and rheumatic heart disease 390-398			1		1	
31 Hypertensive heart disease 402	1	3	1	2	5	2
32 Hypertensive heart & renal disease 404						
33 Ischemic heart disease 410-414	28	18	28	5	82	12
34 Acute myocardial infarction 410	14	11	24	5	42	4
35 Other ischemic heart disease 411-414	14	7	4		40	8
36 Other diseases of endocardium 424			1			
37 All other forms of heart disease 415-423,425-429	9	6	17	3	30	12
38 Hypertension 401,403			2	1	1	
39 Cerebrovascular diseases 430-438	12	8	15	8	23	3
40 Atherosclerosis 440	3	2			3	1
41 Other diseases of arteries, arterioles, and capillaries 441-448		1			4	
42 Acute bronchitis and bronchiolitis 466						
43 Pneumonia and influenza 480-487	6	2	3	1	8	4
44 Chronic obstructive pulmonary diseases 490-496	4	1	2	1	9	1
45 Ulcer of stomach and duodenum 531-533	1					1
46 Appendicitis 540-543					1	
47 Hernia & intestinal obstruction 550-553,560					10	
48 Chronic liver disease and cirrhosis 571		1	2			
49 Cholelithiasis and other disorders of gall bladder 574-575						
50 Nephritis, nephrotic syndrome, and nephrosis 580-589		2	1		1	4
51 Infections of kidney 590					1	
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676						
54 Congenital anomalies 740-759	1		1		1	3
55 Certain conditions originating in the perinatal period 760-779	1				4	1
56 Symptoms and ill-defined conditions 780-799	1		2	1	3	
57 All other diseases Residual	4	1	6	3	22	7
58 Accidents E800-E949	9	5	4	3	17	5
59 Motor vehicle accidents E810-E825	9	3	4	1	8	1
60 Home accidents (Home) E850-E949				1	3	1
61 All other accidents E800-E807,E826-E849 (Other) E850-E949		2		1	6	3
62 Suicide E950-E959	1		1		5	
63 Homicide and legal intervention E960-E978		2		1	1	4
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 11

Cause of Death	Planning District 11			Amherst		Appomattox		Bedford	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,689	1,314	375	161	60	91	23	244	45
1 Shigellosis and ameblasis 004,006									
2 Certain other intestinal infections 007-009									
3 Tuberculosis, all forms 010-018									
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036									
7 Septicemia 038	4	3	1	1		1			
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070									
11 Syphilis 090-097									
12 Other infectious & parasitic diseases Residual of 001-139	4	4		2					
13 Malignant neoplasms 140-208	348	268	80	23	17	17	5	56	7
14 Lip, oral cavity and pharynx 140-149	8	6	2		1	1		2	
15 Digestive organs and peritoneum 150-159	91	72	19	6	3	2	1	16	1
16 Respiratory & intrathoracic organs. 160-165	110	88	22	6	6	5	3	14	1
17 Breast 174-175	25	17	8		1	2	1	3	
18 Genital organs 179-187	33	24	9	5	4	2		8	1
19 Urinary organs 188-189	8	6	2	1				1	
20 Other & unspecified sites 170-173,190-199	45	33	12	2	1	4		7	3
21 Leukemia 204-208	13	11	2	2	1			3	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	15	11	4	1		1		2	1
23 Benign neoplasms and neoplasms of unspecified nature 210-239	2	1	1						
24 Diabetes mellitus 250	22	15	7		2		1	5	2
25 Nutritional deficiencies 260-269									
26 Anemias 280-285	4	2	2				1	2	
27 Meningitis 320-322	4	1	3		1	1			
28 Major cardiovascular diseases 390-448	888	698	190	99	30	50	12	119	27
29 Diseases of heart 390-398,402,404-429	636	507	129	74	20	37	11	74	16
30 Rheumatic fever and rheumatic heart disease 390-398	6	6		1				2	
31 Hypertensive heart disease 402	22	12	10	2	2	1	1	1	
32 Hypertensive heart & renal disease 404	6	4	2						
33 Ischemic heart disease 410-414	412	347	65	60	11	23	6	46	10
34 Acute myocardial infarction 410	258	214	44	46	10	17	4	25	6
35 Other ischemic heart disease 411-414	154	133	21	14	1	6	2	21	4
36 Other diseases of endocardium 424	7	4	3	1				1	1
37 All other forms of heart disease 415-423,425-429	183	134	49	10	7	13	4	24	5
38 Hypertension 401,403	8	4	4					1	2
39 Cerebrovascular diseases 430-438	197	146	51	18	10	10	1	27	8
40 Atherosclerosis 440	30	26	4	5		1		14	1
41 Other diseases of arteries, arterioles, and capillaries 441-448	17	15	2	2		2		3	
42 Acute bronchitis and bronchiolitis 466									
43 Pneumonia and influenza 480-487	44	37	7		2	3		13	1
44 Chronic obstructive pulmonary diseases. 490-496	37	35	2	5		1		5	
45 Ulcer of stomach and duodenum 531-533	5	4	1						
46 Appendicitis 540-543	1	1						1	
47 Hernia & intestinal obstruction 550-553,560	7	6	1			1		1	
48 Chronic liver disease and cirrhosis 571	23	19	4	4		2		5	
49 Cholelithiasis and other disorders of gall bladder 574-575	4	4				1			
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	11	6	5		1			2	
51 Infections of kidney 590	2	2							
52 Hyperplasia of prostate 600	1		1				1		
53 Complications of pregnancy, childbirth, and the puerperium 630-676									
54 Congenital anomalies 740-759	15	12	3	2		1		3	
55 Certain conditions originating in the perinatal period 760-779	28	17	11	1	1	1		3	2
56 Symptoms and ill-defined conditions 780-799	17	13	4	2				1	1
57 All other diseases Residual	96	70	26	7	2	5	1	11	3
58 Accidents E800-E949	81	65	16	9	2	7	2	14	
59 Motor vehicle accidents E810-E825	33	31	2	5		3	1	6	
60 Home accidents (Home) E850-E949	21	13	8	3	1	1	1	2	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	27	21	6	1	1	3		6	
62 Suicide E950-E959	29	25	4	3	1			3	1
63 Homicide and legal intervention E960-E978	11	6	5	3					1
64 Other external causes E980-E999	1		1		1				

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 11 (continued)

Cause of Death	Campbell		Bedford City		Lynchburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	216	58	85	12	517	177
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036						
7 Septicemia 038					1	1
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139			1		1	
13 Malignant neoplasms 140-208	45	12	17	3	110	36
14 Lip, oral cavity and pharynx 140-149					3	1
15 Digestive organs and peritoneum 150-159	15	4	4	2	29	8
16 Respiratory & intrathoracic organs 160-165	15	2	8	1	40	9
17 Breast 174-175	3	3			9	3
18 Genital organs 179-187	2	1	1		6	3
19 Urinary organs 188-189	1				3	2
20 Other & unspecified sites 170-173,190-199	6	1	2		12	7
21 Leukemia 204-208	2		1		3	1
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	1	1	1		5	2
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1					1
24 Diabetes mellitus 250	2	2	3		5	
25 Nutritional deficiencies 260-269						
26 Anemias 280-285						1
27 Meningitis 320-322						2
28 Major cardiovascular diseases 390-448	104	31	42	3	284	87
29 Diseases of heart 390-398,402,404-429	84	21	30	2	208	59
30 Rheumatic fever and rheumatic heart disease 390-398					3	
31 Hypertensive heart disease 402	4	2	2		2	5
32 Hypertensive heart & renal disease 404		1			4	1
33 Ischemic heart disease 410-414	47	7	23	1	148	30
34 Acute myocardial infarction 410	31	4	9		86	20
35 Other ischemic heart disease 411-414	16	3	14	1	62	10
36 Other diseases of endocardium 424	1	1			1	1
37 All other forms of heart disease 415-423,425-429	32	10	5	1	50	22
38 Hypertension 401,403	1		2			2
39 Cerebrovascular diseases 430-438	19	10	8	1	64	21
40 Atherosclerosis 440			2		4	3
41 Other diseases of arteries, arterioles, and capillaries 441-448					8	2
42 Acute bronchitis and bronchiolitis 466						
43 Pneumonia and influenza 480-487	11		4		6	4
44 Chronic obstructive pulmonary diseases 490-496	4	1	2		18	1
45 Ulcer of stomach and duodenum 531-533	1	1	1		2	
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560			2		2	1
48 Chronic liver disease and cirrhosis 571	2		2		4	4
49 Cholelithiasis and other disorders of gall bladder 574-575					3	
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	2	1			2	3
51 Infections of kidney 590	1				1	
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676						
54 Congenital anomalies 740-759	1				5	3
55 Certain conditions originating in the perinatal period 760-779	5	3		1	7	4
56 Symptoms and ill-defined conditions 780-799	3	1	2	2	5	
57 All other diseases Residual	12	2	3	2	32	16
58 Accidents E800-E949	11	3	6	1	18	8
59 Motor vehicle accidents E810-E825	5		4		8	1
60 Home accidents (Home) E850-E949	2	2	2	1	3	3
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	4	1			7	4
62 Suicide E950-E959	10	1			9	1
63 Homicide and legal intervention E960-E978	1				2	4
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 12

Cause of Death	Planning District 12			Franklin		Henry		Patrick	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	2,065	1,578	487	238	42	312	84	143	11
1 Shigellosis and ameblasis 004,006									
2 Certain other intestinal infections 007-009									
3 Tuberculosis, all forms 010-018	1	1				1			
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036	1	1							
7 Septicemia 038	9	5	4	2			1		
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070	1		1				1		
11 Syphilis 090-097									
12 Other infectious & parasitic diseases Residual cf 001-139	1	1							
13 Malignant neoplasms 140-208	369	282	87	35	6	58	11	23	3
14 Lip, oral cavity and pharynx 140-149	7	7				1		1	
15 Digestive organs and peritoneum 150-159	99	74	25	5		11	1	7	1
16 Respiratory & intrathoracic organs 160-165	88	67	21	12	1	13	1	4	
17 Breast 174-175	33	24	9	3	2	5		3	
18 Genital organs 179-187	54	39	15	6	1	9	5	3	
19 Urinary organs 188-189	8	6	2			1		1	
20 Other & unspecified sites 170-173,190-199	48	39	9	7	2	12	4	2	1
21 Leukemia 204-208	10	10		1		3		2	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	22	16	6	1		3			1
23 Benign neoplasms and neoplasms of unspecified nature 210-239	8	7	1	2			1		
24 Diabetes mellitus 250	38	25	13	4	1	8	2	2	1
25 Nutritional deficiencies 260-269	1	1				1			
26 Anemias 280-285	2	1	1				1	1	
27 Meningitis 320-322	2	2				1			
28 Major cardiovascular diseases 390-448	1,043	817	226	134	14	158	38	76	5
29 Diseases of heart 390-398,402,404-429	758	609	149	100	12	124	21	53	5
30 Rheumatic fever and rheumatic heart disease 390-398	11	8	3	2		2			
31 Hypertensive heart disease 402	12	10	2		1	5			
32 Hypertensive heart & renal disease 404									
33 Ischemic heart disease 410-414	549	458	91	70	7	95	12	43	4
34 Acute myocardial infarction 410	298	249	49	53	6	41	6	16	4
35 Other ischemic heart disease 411-414	251	209	42	17	1	54	6	27	
36 Other diseases of endocardium 424	6	6		3					
37 All other forms of heart disease 415-423,425-429	180	127	53	25	4	22	9	10	1
38 Hypertension 401,403	4	3	1			3			
39 Cerebrovascular diseases 430-438	244	173	71	27	7	28	15	19	
40 Atherosclerosis 440	17	15	2	4		3	1	2	
41 Other diseases of arteries, arterioles, and capillaries 441-448	20	17	3	3			1	2	
42 Acute bronchitis and bronchiolitis 466									
43 Pneumonia and influenza 480-487	54	42	12	5		7	2	3	
44 Chronic obstructive pulmonary diseases 490-496	45	37	8	4		7	3	3	1
45 Ulcer of stomach and duodenum 531-533	5	4	1						
46 Appendicitis 540-543									
47 Hernia & intestinal obstruction 550-553,560	3	2	1		1				
48 Chronic liver disease and cirrhosis 571	33	25	8	5		5	1		
49 Cholelithiasis and other disorders of gall bladder 574-575	3	3				1			
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	14	12	2	2	1	2		2	
51 Infections of kidney 590	7	5	2			3			
52 Hyperplasia of prostate 600	1	1				1			
53 Complications of pregnancy, childbirth, and the puerperium 630-676	1	1							
54 Congenital anomalies 740-759	26	20	6	4		3	2	1	
55 Certain conditions originating in the perinatal period 760-779	27	14	13	2	1	2			
56 Symptoms and ill-defined conditions 780-799	13	8	5	2			1		
57 All other diseases Residual	141	100	41	14	6	14	9	11	
58 Accidents E800-E949	137	105	32	15	3	17	6	18	1
59 Motor vehicle accidents E810-E825	76	62	14	8	1	12	2	8	
60 Home accidents (Home) E850-E949	24	20	4	2	1	3		5	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	37	23	14	5	1	2	4	5	1
62 Suicide E950-E959	49	42	7	7	2	16	1	3	
63 Homicide and legal intervention E960-E978	30	14	16	1	2	7	4		
64 Other external causes E980-E999									

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 12 (continued)

Cause of Death	Pittsylvania		Danville		Martinsville	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	348	150	393	142	144	58
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036			1			
7 Septicemia 038	2	2	1			1
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139			1			
13 Malignant neoplasms 140-208	63	24	74	34	29	9
14 Lip, oral cavity and pharynx 140-149	2		2		1	
15 Digestive organs and peritoneum 150-159	22	10	21	9	8	4
16 Respiratory & intrathoracic organs 160-165	16	8	17	10	5	1
17 Breast 174-175	2	2	8	4	3	1
18 Genital organs 179-187	10	1	7	7	4	1
19 Urinary organs 188-189		1	4			1
20 Other & unspecified sites 170-173,190-199	6		7	1	5	1
21 Leukemia 204-208			3		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	5	2	5	3	2	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1		4			
24 Diabetes mellitus 250	6	4	4	5	1	
25 Nutritional deficiencies 260-269						
26 Anemias 280-285						
27 Meningitis 320-322	1					
28 Major cardiovascular diseases 390-448	173	70	200	68	76	26
29 Diseases of heart 390-398,402,404-429	127	45	141	43	64	23
30 Rheumatic fever and rheumatic heart disease 390-398	2	3	1		1	
31 Hypertensive heart disease 402	1	1	1		3	
32 Hypertensive heart & renal disease 404						
33 Ischemic heart disease 410-414	87	20	112	30	51	18
34 Acute myocardial infarction 410	56	14	58	10	25	9
35 Other ischemic heart disease 411-414	31	6	54	20	26	9
36 Other diseases of endocardium 424	2		1			
37 All other forms of heart disease 415-423,425-429	35	21	26	13	9	5
38 Hypertension 401,403		1				
39 Cerebrovascular diseases 430-438	38	22	53	24	8	3
40 Atherosclerosis 440	3		1	1	2	
41 Other diseases of arteries, arterioles, and capillaries 441-448	5	2	5		2	
42 Acute bronchitis and bronchiolitis 466						
43 Pneumonia and influenza 480-487	8	3	14	3	5	4
44 Chronic obstructive pulmonary diseases 490-496	16		5	3	2	1
45 Ulcer of stomach and duodenum 531-533	1	1	3			
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560	1				1	
48 Chronic liver disease and cirrhosis 571	6	3	8	2	1	2
49 Cholelithiasis and other disorders of gall bladder 574-575			1		1	
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	5		1	1		
51 Infections of kidney 590		1	2			1
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676	1					
54 Congenital anomalies 740-759	5	2	4	2	3	
55 Certain conditions originating in the perinatal period 760-779	4	11	6	1		
56 Symptoms and ill-defined conditions 780-799	3	3	1		2	1
57 All other diseases Residual	17	8	31	13	13	5
58 Accidents E800-E949	25	12	24	6	6	4
59 Motor vehicle accidents E810-E825	18	7	11	2	5	2
60 Home accidents (Home) E850-E949	2		8	2		1
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	5	5	5	2	1	1
62 Suicide E950-E959	9	2	4	1	3	1
63 Homicide and legal intervention E960-E978	1	4	4	3	1	3
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 13

Cause of Death	Planning District 13			Brunswick		Halifax		Mecklenburg		South Boston	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	909	519	390	74	86	197	134	198	145	50	25
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009											
3 Tuberculosis, all forms 010-018											
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036	1	1				1					
7 Septicemia 038	7	3	4		1	1	1	1	2	1	
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070											
11 Syphilis 090-097											
12 Other infectious & parasitic diseases Residual of 001-139											
13 Malignant neoplasms 140-208	167	97	70	15	17	33	24	41	24	8	5
14 Lip, oral cavity and pharynx 140-149	3	1	2				1	1	1		
15 Digestive organs and peritoneum 150-159	42	25	17	6	6	8	8	9	3	2	
16 Respiratory & intrathoracic organs. 160-165	37	22	15	2	2	6	4	11	7	3	2
17 Breast 174-175	18	13	5	1	1	6	1	5	2	1	1
18 Genital organs 179-187	15	7	8	1	1	3	3	3	4		
19 Urinary organs 188-189	6	5	1	3		1		1	1		
20 Other & unspecified sites 170-173,190-199	36	19	17	1	6	6	6	10	3	2	2
21 Leukemia 204-208	4	3	1			2		1	1		
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	6	2	4	1	1	1	1		2		
23 Benign neoplasms and neoplasms of unspecified nature 210-239	2	1	1				1	1			
24 Diabetes mellitus 250	17	10	7	1	2	3	4	6	1		
25 Nutritional deficiencies 260-269	2	1	1			1	1				
26 Anemias 280-285	3	2	1			1		1	1		
27 Meningitis 320-322											
28 Major cardiovascular diseases 390-448	484	275	209	40	41	99	68	108	85	28	15
29 Diseases of heart 390-398,402,404-429	378	216	162	32	35	79	46	85	68	20	13
30 Rheumatic fever and rheumatic heart disease 390-398	2	1	1						1	1	
31 Hypertensive heart disease 402	19	4	15	1	2	3	7		4		2
32 Hypertensive heart & renal disease 404	5	1	4				3	1	1		
33 Ischemic heart disease 410-414	258	156	102	20	27	64	26	56	40	16	9
34 Acute myocardial infarction 410	98	60	38	4	10	19	5	30	22	7	1
35 Other ischemic heart disease 411-414	160	96	64	16	17	45	21	26	18	9	8
36 Other diseases of endocardium 424	1		1								1
37 All other forms of heart disease 415-423,425-429	93	54	39	11	6	12	10	28	22	3	1
38 Hypertension 401,403	4		4				3		1		
39 Cerebrovascular diseases 430-438	80	47	33	8	3	17	16	16	12	6	2
40 Atherosclerosis 440	12	7	5		1	1	1	5	3	1	
41 Other diseases of arteries, arterioles, and capillaries 441-448	10	5	5		2	2	2	2	1	1	
42 Acute bronchitis and bronchiolitis 466											
43 Pneumonia and influenza 480-487	14	8	6	3		2	4	2	2	1	
44 Chronic obstructive pulmonary diseases. 490-496	20	19	1	2		6		10	1	1	
45 Ulcer of stomach and duodenum 531-533											
46 Appendicitis 540-543											
47 Hernia & intestinal obstruction 550-553,560	3	2	1	1				1	1		
48 Chronic liver disease and cirrhosis 571	12	10	2		1	6		2	1	2	
49 Cholelithiasis and other disorders of gall bladder 574-575	1		1						1		
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	9	3	6			2	3	1	3		
51 Infections of kidney 590											
52 Hyperplasia of prostate 600											
53 Complications of pregnancy, childbirth, and the puerperium 630-676											
54 Congenital anomalies 740-759	6	3	3			2	1		2	1	
55 Certain conditions originating in the perinatal period 760-779	13	4	9	1	3	2	3	1	3		
56 Symptoms and ill-defined conditions 780-799	12	3	9		1		5	3	3		
57 All other diseases Residual	61	33	28	5	10	15	8	8	8	5	2
58 Accidents E800-E949	43	25	18	4	6	14	6	5	4	2	2
59 Motor vehicle accidents E810-E825	15	12	3	3		5	3	3		1	
60 Home accidents (Home) E850-E949	11	4	7		1	1	3	2	2	1	1
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	17	9	8	1	5	8			2		1
62 Suicide E950-E959	13	11	2	1	1	6		4			1
63 Homicide and legal intervention E960-E978	17	7	10		3	3	4	3	3	1	
64 Other external causes E980-E999	2	1	1	1			1				

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 14

Cause of Death	Planning District 14			Amelia		Buckingham		Charlotte	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	962	576	386	50	42	90	56	118	64
1 Shigellosis and ameblasis 004,006									
2 Certain other intestinal infections 007-009									
3 Tuberculosis, all forms 010-018	3	1	2						
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036									
7 Septicemia 038	5	2	3					1	
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070									
11 Syphilis 090-097									
12 Other infectious & parasitic diseases Residual of 001-139									
13 Malignant neoplasms 140-208	178	112	66	9	7	19	10	15	12
14 Lip, oral cavity and pharynx 140-149	3	2	1		1			2	
15 Digestive organs and peritoneum 150-159	49	29	20	3		1	4	3	5
16 Respiratory & intrathoracic organs. 160-165	46	28	18	2	3	8	2	2	1
17 Breast 174-175	8	5	3					1	1
18 Genital organs 179-187	25	12	13	2	3	1	1	2	3
19 Urinary organs 188-189	8	7	1			1			
20 Other & unspecified sites 170-173,190-199	26	19	7	1		6	2	4	1
21 Leukemia 204-208	5	4	1			1	1	1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	8	6	2	1		1			1
23 Benign neoplasms and neoplasms of unspecified nature 210-239	3	2	1						
24 Diabetes mellitus 250	12	8	4		1			1	
25 Nutritional deficiencies 260-269	1	1				1			
26 Anemias 280-285									
27 Meningitis 320-322	2	1	1	1					
28 Major cardiovascular diseases 390-448	508	302	206	27	19	47	27	66	33
29 Diseases of heart 390-398,402,404-429	365	227	138	18	14	35	20	52	21
30 Rheumatic fever and rheumatic heart disease 390-398	1	1							
31 Hypertensive heart disease 402	14	2	12		2		1		2
32 Hypertensive heart & renal disease 404									
33 Ischemic heart disease 410-414	236	152	84	14	10	19	14	42	12
34 Acute myocardial infarction 410	157	105	52	11	6	16	8	26	9
35 Other ischemic heart disease 411-414	79	47	32	3	4	3	6	16	3
36 Other diseases of endocardium 424	6	4	2	1		2			
37 All other forms of heart disease 415-423,425-429	108	68	40	3	2	14	5	10	7
38 Hypertension 401,403	3	1	2						
39 Cerebrovascular diseases 430-438	111	55	56	9	5	9	6	10	10
40 Atherosclerosis 440	23	15	8			3	1	2	2
41 Other diseases of arteries, arterioles, and capillaries 441-448	6	4	2					2	
42 Acute bronchitis and bronchiolitis 466									
43 Pneumonia and influenza 480-487	27	19	8	1	1	4	2	5	2
44 Chronic obstructive pulmonary diseases. 490-496	20	15	5	1	1	1		4	
45 Ulcer of stomach and duodenum 531-533	4	2	2						1
46 Appendicitis 540-543									
47 Hernia & intestinal obstruction 550-553,560	5	2	3		1				
48 Chronic liver disease and cirrhosis 571	7	3	4						1
49 Cholelithiasis and other disorders of gall bladder 574-575	2	1	1						
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	6	3	3	1		1			1
51 Infections of kidney 590									
52 Hyperplasia of prostate 600									
53 Complications of pregnancy, childbirth, and the puerperium 630-676									
54 Congenital anomalies 740-759	7	5	2			1		1	
55 Certain conditions originating in the perinatal period 760-779	13	6	7	1	1	3	4	1	1
56 Symptoms and ill-defined conditions 780-799	11	6	5	1		2			1
57 All other diseases Residual	62	35	27	2	4	5	7	9	5
58 Accidents E800-E949	62	37	25	6	4	2	6	11	7
59 Motor vehicle accidents E810-E825	24	16	8	2	1	1	3	7	3
60 Home accidents (Home) E850-E949	14	8	6	3	1	1	1	1	3
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	24	13	11	1	2		2	3	1
62 Suicide E950-E959	13	11	2		1	2		4	
63 Homicide and legal intervention E960-E978	11	2	9		2	2			
64 Other external causes E980-E999									

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 14 (continued)

Cause of Death	Cumberland		Lunenburg		Nottoway		Prince Edward	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	40	29	79	51	94	70	105	74
1 Shigellosis and amebiasis 004,006								
2 Certain other intestinal infections 007-009								
3 Tuberculosis, all forms 010-018	1							2
4 Whooping cough 033								
5 Streptococcal sore throat, scarlatina and erysipelas 034-035								
6 Meningococcal infection 036								
7 Septicemia 038				1	1	1		1
8 Acute poliomyelitis 045								
9 Measles 055								
10 Viral hepatitis 070								
11 Syphilis 090-097								
12 Other infectious & parasitic diseases Residual of 001-139								
13 Malignant neoplasms 140-208	7	5	20	10	15	12	27	10
14 Lip, oral cavity and pharynx 140-149								
15 Digestive organs and peritoneum 150-159	4		6	2	2	4	10	5
16 Respiratory & intrathoracic organs. 160-165	1	4	4	3	7	4	4	1
17 Breast 174-175			2	2			2	
18 Genital organs 179-187			3	1	2	4	2	1
19 Urinary organs 188-189			2				4	1
20 Other & unspecified sites 170-173,190-199	2	1	2	1	2		2	2
21 Leukemia 204-208					1		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203			1	1	1		2	
23 Benign neoplasms and neoplasms of unspecified nature 210-239		1	1				1	
24 Diabetes mellitus 250	2		3				2	3
25 Nutritional deficiencies 260-269								
26 Anemias 280-285								
27 Meningitis 320-322								1
28 Major cardiovascular diseases 390-448	17	13	39	32	57	37	49	45
29 Diseases of heart 390-398,402,404-429	11	9	32	22	44	27	35	25
30 Rheumatic fever and rheumatic heart disease 390-398					1			
31 Hypertensive heart disease 402		1	1	4		1	1	1
32 Hypertensive heart & renal disease 404								
33 Ischemic heart disease 410-414	8	5	21	8	27	17	21	18
34 Acute myocardial infarction 410	5	3	8	4	20	9	19	13
35 Other ischemic heart disease 411-414	3	2	13	4	7	8	2	5
36 Other diseases of endocardium 424	1					1		1
37 All other forms of heart disease 415-423,425-429	2	3	10	10	16	8	13	5
38 Hypertension 401,403			1			1		1
39 Cerebrovascular diseases 430-438	4	4	6	8	8	8	9	15
40 Atherosclerosis 440	1				4	1	5	4
41 Other diseases of arteries, arterioles, and capillaries 441-448	1			2	1			
42 Acute bronchitis and bronchiolitis 466								
43 Pneumonia and influenza 480-487	1	1	2	1	1		5	1
44 Chronic obstructive pulmonary diseases. 490-496	1	1	4		2	2	2	1
45 Ulcer of stomach and duodenum 531-533			1				1	1
46 Appendicitis 540-543								
47 Hernia & intestinal obstruction 550-553,560	1					2	1	
48 Chronic liver disease and cirrhosis 571	1			1		1	2	1
49 Cholelithiasis and other disorders of gall bladder 574-575					1	1		
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	1			1		1		
51 Infections of kidney 590								
52 Hyperplasia of prostate 600								
53 Complications of pregnancy, childbirth, and the puerperium 630-676								
54 Congenital anomalies 740-759	1			1			2	1
55 Certain conditions originating in the perinatal period 760-779			1	1				
56 Symptoms and ill-defined conditions 780-799		3			2		1	1
57 All other diseases Residual	1	2	5	2	5	5	8	2
58 Accidents E800-E949	4	1	2		8	5	4	2
59 Motor vehicle accidents E810-E825	1		2		3	1		
60 Home accidents (Home) E850-E949	1	1					2	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	2				5	4	2	2
62 Suicide E950-E959	2		1		2	1		
63 Homicide and legal intervention E960-E978		2		1		2		2
64 Other external causes E980-E999								

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 15

Cause of Death		Planning District 15			Charles City		Chesterfield		Goochland	
		Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes		5,243	3,719	1,524	21	27	534	85	46	41
1 Shigellosis and ameblasis	004,006									
2 Certain other intestinal infections	007-009									
3 Tuberculosis, all forms	010-018	8	2	6			1			
4 Whooping cough	033									
5 Streptococcal sore throat, scarlatina and erysipelas	034-035									
6 Meningococcal infection	036	1	1							
7 Septicemia	038	64	39	25			11			
8 Acute poliomyelitis	045									
9 Measles	055									
10 Viral hepatitis	070	4	3	1			2			
11 Syphilis	090-097	1		1						
12 Other infectious & parasitic diseases	Residual of 001-139	12	7	5			1			
13 Malignant neoplasms	140-208	1,130	786	344	5	2	126	17	8	9
14 Lip, oral cavity and pharynx	140-149	29	24	5			4			
15 Digestive organs and peritoneum	150-159	278	184	94		1	24	5	1	5
16 Respiratory & intrathoracic organs	160-165	342	241	101	4	1	40	2	3	2
17 Breast	174-175	87	62	25			16	1		1
18 Genital organs	179-187	113	76	37			10	4		
19 Urinary organs	188-189	43	33	10			3			
20 Other & unspecified sites	170-173,190-199	167	113	54	1		20	5	3	1
21 Leukemia	204-208	20	12	8			3			
22 Other neoplasms of lymphatic and hematopoietic tissues	200-203	51	41	10			6		1	
23 Benign neoplasms and neoplasms of unspecified nature	210-239	14	9	5			1			
24 Diabetes mellitus	250	69	36	33			6		1	1
25 Nutritional deficiencies	260-269	7	5	2						
26 Anemias	280-285	8	3	5		1		1		
27 Meningitis	320-322	5	1	4			1			
28 Major cardiovascular diseases	390-448	2,545	1,909	636	11	14	239	42	21	19
29 Diseases of heart	390-398,402,404-429	1,925	1,470	455	9	11	199	25	18	12
30 Rheumatic fever and rheumatic heart disease	390-398	19	15	4			3	1	1	
31 Hypertensive heart disease	402	54	29	25	1	2	5	1		2
32 Hypertensive heart & renal disease	404	15	9	6						
33 Ischemic heart disease	410-414	1,369	1,102	267	5	6	146	16	15	8
34 Acute myocardial infarction	410	596	492	104	3	3	66	8	10	6
35 Other ischemic heart disease	411-414	773	610	163	2	3	80	8	5	2
36 Other diseases of endocardium	424	14	10	4						
37 All other forms of heart disease	415-423,425-429	454	305	149	3	3	45	7	2	2
38 Hypertension	401,403	14	8	6						
39 Cerebrovascular diseases	430-438	477	326	151	2	3	34	15		5
40 Atherosclerosis	440	82	66	16			1	2	3	1
41 Other diseases of arteries, arterioles, and capillaries	441-448	47	39	8			5			1
42 Acute bronchitis and bronchiolitis	466	1	1							
43 Pneumonia and influenza	480-487	149	97	52		2	10	3		1
44 Chronic obstructive pulmonary diseases	490-496	127	113	14	2		15		2	
45 Ulcer of stomach and duodenum	531-533	16	13	3			2			
46 Appendicitis	540-543	2	2				1			
47 Hernia & intestinal obstruction	550-553,560	14	12	2			1			
48 Chronic liver disease and cirrhosis	571	58	42	16		1	5			1
49 Cholelithiasis and other disorders of gall bladder	574-575	6	5	1						
50 Nephritis, nephrotic syndrome, and nephrosis	580-589	40	22	18			5	1		
51 Infections of kidney	590	5	4	1				1		
52 Hyperplasia of prostate	600	1	1							
53 Complications of pregnancy, childbirth, and the puerperium	630-676	1	1							
54 Congenital anomalies	740-759	32	24	8	1		4			
55 Certain conditions originating in the perinatal period	760-779	105	48	57		1	13	2	3	1
56 Symptoms and ill-defined conditions	780-799	41	24	17			6			
57 All other diseases	Residual	331	224	107	1	3	26	9	3	3
58 Accidents	E800-E949	266	167	99	1	2	42	5	6	5
59 Motor vehicle accidents	E810-E825	103	72	31			16	2	4	2
60 Home accidents (Home)	E850-E949	91	47	44		1	10	3		3
61 All other accidents E800-E807,E826-E849 (Other)	E850-E949	72	48	24	1	1	16		2	
62 Suicide	E950-E959	93	78	15			8	2	2	
63 Homicide and legal intervention	E960-E978	84	37	47		1	8	2		1
64 Other external causes	E980-E999	3	3							

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 15 (continued)

Cause of Death	Hanover		Henrico		New Kent		Powhatan		Richmond City	
	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	330	62	1,253	121	50	20	58	36	1,427	1,132
1 Shigellosis and amebiasis 004,006										
2 Certain other intestinal infections . 007-009										
3 Tuberculosis, all forms 010-018			1							6
4 Whooping cough 033										
5 Streptococcal sore throat, scarlatina and erysipelas 034-035										
6 Meningococcal infection 036			1							
7 Septicemia 038	2	1	10	1	1				15	23
8 Acute poliomyelitis 045										
9 Measles 055										
10 Viral hepatitis 070	1									1
11 Syphilis 090-097		1								
12 Other infectious & parasitic diseases Residual of 001-139		1	2	1					4	3
13 Malignant neoplasms 140-208	67	16	288	30	8	3	12	4	272	263
14 Lip, oral cavity and pharynx 140-149			9						11	5
15 Digestive organs and peritoneum ... 150-159	16	3	75	6	1	2	1	1	66	71
16 Respiratory & intrathoracic organs, 160-165	22	7	94	10	4	1	4		70	78
17 Breast 174-175	6	1	15	4	1				24	18
18 Genital organs 179-187	6	3	26	3					34	27
19 Urinary organs 188-189	2		12	1	1		1		14	9
20 Other & unspecified sites . 170-173,190-199	13	2	37	5	1		4	2	34	39
21 Leukemia 204-208	1		2				1		5	8
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	1		18	1			1	1	14	8
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1		4	1					3	4
24 Diabetes mellitus 250	3	3	12	1			1	2	13	26
25 Nutritional deficiencies 260-269	1		2						2	2
26 Anemias 280-285	1		2							3
27 Meningitis 320-322				1						3
28 Major cardiovascular diseases 390-448	175	29	645	39	24	11	31	17	763	465
29 Diseases of heart 390-398,402,404-429	138	24	480	31	20	6	23	10	583	336
30 Rheumatic fever and rheumatic heart disease 390-398	2		3						6	3
31 Hypertensive heart disease 402	1	1	8		1		1		12	19
32 Hypertensive heart & renal disease .. 404	2		4						3	6
33 Ischemic heart disease 410-414	106	9	354	20	13	3	18	6	445	199
34 Acute myocardial infarction 410	56	4	166	8	8	2	8	4	175	69
35 Other ischemic heart disease .. 411-414	50	5	188	12	5	1	10	2	270	130
36 Other diseases of endocardium 424	2	3	3		2		1		2	1
37 All other forms of heart disease 415-423,425-429	25	11	108	11	4	3	3	4	115	108
38 Hypertension 401,403	1		5						2	6
39 Cerebrovascular diseases 430-438	28	2	124	8	1	5	7	6	130	107
40 Atherosclerosis 440	5	3	25		1				31	10
41 Other diseases of arteries, arterioles, and capillaries 441-448	3		11		2		1	1	17	6
42 Acute bronchitis and bronchiolitis 466			1							
43 Pneumonia and influenza 480-487	17	2	26	4	1			2	43	38
44 Chronic obstructive pulmonary diseases. 490-496	9		36	3	1			1	48	10
45 Ulcer of stomach and duodenum 531-533			3						8	3
46 Appendicitis 540-543					1					
47 Hernia & intestinal obstruction . 550-553,560	1		4						6	2
48 Chronic liver disease and cirrhosis 571	2		12		1				22	14
49 Cholelithiasis and other disorders of gall bladder 574-575	2		2						1	1
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	1	1	4	2		2			12	12
51 Infections of kidney 590					1				3	
52 Hyperplasia of prostate 600			1							
53 Complications of pregnancy, childbirth, and the puerperium 630-676					1					
54 Congenital anomalies 740-759	1		11				3		4	8
55 Certain conditions originating in the perinatal period 760-779	4	3	14	5	1		2		11	45
56 Symptoms and ill-defined conditions . 780-799	1		8			1			9	16
57 All other diseases Residual	15		75	16	4		4	6	96	70
58 Accidents E800-E949	20	5	52	9	1	3	4	3	41	67
59 Motor vehicle accidents E810-E825	10	2	27	5		2	2	1	13	17
60 Home accidents (Home) E850-E949	5		11	4	1	1		2	20	30
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	5	3	14				2		8	20
62 Suicide E950-E959	4		27	4	2		1		34	9
63 Homicide and legal intervention ... E960-E978	2		9	4	3			1	15	38
64 Other external causes E980-E999			1						2	

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 16

Cause of Death	Planning District 16			Caroline		King George	
	Total	White	Nonwh	White	Nonwh	White	Nonwh
All causes	765	623	142	82	59	58	15
1 Shigellosis and amebiasis 004,006							
2 Certain other intestinal infections 007-009							
3 Tuberculosis, all forms 010-018	1	1					
4 Whooping cough 033							
5 Streptococcal sore throat, scarlatina and erysipelas 034-035							
6 Meningococcal infection 036							
7 Septicemia 038	3	3		1			
8 Acute poliomyelitis 045							
9 Measles 055							
10 Viral hepatitis 070							
11 Syphilis 090-097							
12 Other infectious & parasitic diseases Residual of 001-139							
13 Malignant neoplasms 140-208	173	136	37	18	13	13	5
14 Lip, oral cavity and pharynx 140-149	1	1					
15 Digestive organs and peritoneum 150-159	33	26	7	4	2	1	
16 Respiratory & intrathoracic organs. 160-165	51	40	11	3	5	4	1
17 Breast 174-175	12	10	2				1
18 Genital organs 179-187	24	18	6	3	1	2	1
19 Urinary organs 188-189	7	3	4		1		1
20 Other & unspecified sites 170-173,190-199	23	19	4	5	3	2	
21 Leukemia 204-208	11	10	1	2	1	1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	11	9	2	1		3	1
23 Benign neoplasms and neoplasms of unspecified nature 210-239	2	2		1			
24 Diabetes mellitus 250	8	8		1		2	
25 Nutritional deficiencies 260-269							
26 Anemias 280-285	3	3		1		1	
27 Meningitis 320-322							
28 Major cardiovascular diseases 390-448	395	319	76	41	33	30	7
29 Diseases of heart 390-398,402,404-429	314	258	56	35	27	24	6
30 Rheumatic fever and rheumatic heart disease 390-398	2		2		1		1
31 Hypertensive heart disease 402	11	8	3		2	2	1
32 Hypertensive heart & renal disease 404							
33 Ischemic heart disease 410-414	214	182	32	24	11	14	4
34 Acute myocardial infarction 410	135	115	20	12	5	9	3
35 Other ischemic heart disease 411-414	79	67	12	12	6	5	1
36 Other diseases of endocardium 424	1	1					
37 All other forms of heart disease 415-423,425-429	86	67	19	11	13	8	
38 Hypertension 401,403							
39 Cerebrovascular diseases 430-438	61	43	18	5	6	3	1
40 Atherosclerosis 440	18	16	2	1		3	
41 Other diseases of arteries, arterioles, and capillaries 441-448	2	2					
42 Acute bronchitis and bronchiolitis 466							
43 Pneumonia and influenza 480-487	20	16	4	1	2	1	
44 Chronic obstructive pulmonary diseases. 490-496	16	13	3	2	1	2	1
45 Ulcer of stomach and duodenum 531-533							
46 Appendicitis 540-543							
47 Hernia & intestinal obstruction 550-553,560	1	1					
48 Chronic liver disease and cirrhosis 571	8	7	1	1	1	1	
49 Cholelithiasis and other disorders of gall bladder 574-575							
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	1	1					
51 Infections of kidney 590	1	1					
52 Hyperplasia of prostate 600							
53 Complications of pregnancy, childbirth, and the puerperium 630-676							
54 Congenital anomalies 740-759	6	6		1			
55 Certain conditions originating in the perinatal period 760-779	11	10	1		1	1	
56 Symptoms and ill-defined conditions 780-799	3	2	1				
57 All other diseases Residual	42	33	9	4	4	3	2
58 Accidents E800-E949	49	40	9	5	3	4	
59 Motor vehicle accidents E810-E825	34	29	5	4	2	3	
60 Home accidents (Home) E850-E949	4	3	1			1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	11	8	3	1	1		
62 Suicide E950-E959	16	16		2			
63 Homicide and legal intervention E960-E978	6	5	1	3	1		
64 Other external causes E980-E999							

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 16 (continued)

Cause of Death		Spotsylvania		Stafford		Fredericksburg	
		White	Nonwh	White	Nonwh	White	Nonwh
	All causes	158	25	176	15	149	28
1	Shigellosis and amebiasis 004,006						
2	Certain other intestinal infections 007-009						
3	Tuberculosis, all forms 010-018			1			
4	Whooping cough 033						
5	Streptococcal sore throat, scarlatina and erysipelas 034-035						
6	Meningococcal infection 036						
7	Septicemia 038	1		1			
8	Acute poliomyelitis 045						
9	Measles 055						
10	Viral hepatitis 070						
11	Syphilis 090-097						
12	Other infectious & parasitic diseases Residual of 001-139						
13	Malignant neoplasms 140-208	22	10	48	1	35	8
14	Lip, oral cavity and pharynx 140-149					1	
15	Digestive organs and peritoneum 150-159	3	2	6	1	12	2
16	Respiratory & intrathoracic organs 160-165	7	3	17		9	2
17	Breast 174-175	4	1	4		2	
18	Genital organs 179-187	2	2	7		4	2
19	Urinary organs 188-189			2		1	2
20	Other & unspecified sites 170-173,190-199	2	1	6		4	
21	Leukemia 204-208			5		2	
22	Other neoplasms of lymphatic and hematopoietic tissues 200-203	4	1	1			
23	Benign neoplasms and neoplasms of unspecified nature 210-239			1			
24	Diabetes mellitus 250	2		2		1	
25	Nutritional deficiencies 260-269						
26	Anemias 280-285					1	
27	Meningitis 320-322						
28	Major cardiovascular diseases 390-448	86	13	76	10	86	13
29	Diseases of heart 390-398,402,404-429	70	7	63	7	66	9
30	Rheumatic fever and rheumatic heart disease 390-398						
31	Hypertensive heart disease 402	3		2		1	
32	Hypertensive heart & renal disease 404						
33	Ischemic heart disease 410-414	50	6	46	6	48	5
34	Acute myocardial infarction 410	32	5	32	5	30	2
35	Other ischemic heart disease 411-414	18	1	14	1	18	3
36	Other diseases of endocardium 424	1					
37	All other forms of heart disease 415-423,425-429	16	1	15	1	17	4
38	Hypertension 401,403						
39	Cerebrovascular diseases 430-438	12	5	9	3	14	3
40	Atherosclerosis 440	4	1	3		5	1
41	Other diseases of arteries, arterioles, and capillaries 441-448			1		1	
42	Acute bronchitis and bronchiolitis 466						
43	Pneumonia and influenza 480-487	4	1	4		6	1
44	Chronic obstructive pulmonary diseases 490-496	2		3	1	4	
45	Ulcer of stomach and duodenum 531-533						
46	Appendicitis 540-543						
47	Hernia & intestinal obstruction 550-553,560	1					
48	Chronic liver disease and cirrhosis 571	1		2		2	
49	Cholelithiasis and other disorders of gall bladder 574-575						
50	Nephritis, nephrotic syndrome, and nephrosis 580-589	1					
51	Infections of kidney 590			1			
52	Hyperplasia of prostate 600						
53	Complications of pregnancy, childbirth, and the puerperium 630-676						
54	Congenital anomalies 740-759	2		3			
55	Certain conditions originating in the perinatal period 760-779	3		1		5	
56	Symptoms and ill-defined conditions 780-799	1		1			1
57	All other diseases Residual	9	1	13		4	2
58	Accidents E800-E949	14		12	3	5	3
59	Motor vehicle accidents E810-E825	14		5	2	3	1
60	Home accidents (Home) E850-E949			2	1		
61	All other accidents E800-E807,E826-E849 (Other) E850-E949			5		2	2
62	Suicide E950-E959	9		5			
63	Homicide and legal intervention E960-E978			2			
64	Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 17

Cause of Death	Planning District 17			Lancaster		Northumberland		Richmond		Westmoreland	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	505	372	133	100	35	100	29	57	20	115	49
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009											
3 Tuberculosis, all forms 010-018											
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036											
7 Septicemia 038	9	7	2	1		1		1		4	2
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070											
11 Syphilis 090-097											
12 Other infectious & parasitic diseases Residual of 001-139	1	1						1			
13 Malignant neoplasms 140-208	118	82	36	26	7	22	9	8	6	26	14
14 Lip, oral cavity and pharynx 140-149	4	2	2	1			1	1	1		
15 Digestive organs and peritoneum 150-159	32	20	12	6	3	5	3	4		5	6
16 Respiratory & intrathoracic organs. 160-165	30	21	9	7	2	4	2	2	2	8	3
17 Breast 174-175	12	7	5	3		3	1	1	1		3
18 Genital organs 179-187	9	7	2	3	1	2	1			2	
19 Urinary organs 188-189	6	6		2		2				2	
20 Other & unspecified sites 170-173,190-199	17	12	5	3	1	4	1		2	5	1
21 Leukemia 204-208	3	2	1			2					1
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	5	5		1						4	
23 Benign neoplasms and neoplasms of unspecified nature 210-239											
24 Diabetes mellitus 250	6	4	2		1	2			1	2	
25 Nutritional deficiencies 260-269	2	2				1		1			
26 Anemias 280-285	1	1						1			
27 Meningitis 320-322											
28 Major cardiovascular diseases 390-448	254	200	54	51	12	52	16	31	10	66	16
29 Diseases of heart 390-398,402,404-429	191	152	39	36	8	38	11	26	8	52	12
30 Rheumatic fever and rheumatic heart disease 390-398	2	1	1		1	1					
31 Hypertensive heart disease 402	1	1		1							
32 Hypertensive heart & renal disease 404											
33 Ischemic heart disease 410-414	148	121	27	32	6	34	6	17	5	38	10
34 Acute myocardial infarction 410	83	72	11	19	4	23	3	2		28	4
35 Other ischemic heart disease 411-414	65	49	16	13	2	11	3	15	5	10	6
36 Other diseases of endocardium 424	3	3								3	
37 All other forms of heart disease 415-423,425-429	37	26	11	3	1	3	5	9	3	11	2
38 Hypertension 401,403	2	1	1			1			1		
39 Cerebrovascular diseases 430-438	49	36	13	11	3	8	5	5	1	12	4
40 Atherosclerosis 440	4	3	1	2	1	1					
41 Other diseases of arteries, arterioles, and capillaries 441-448	8	8		2		4				2	
42 Acute bronchitis and bronchiolitis 466											
43 Pneumonia and influenza 480-487	10	7	3	2		3	1	2	1		1
44 Chronic obstructive pulmonary diseases. 490-496	12	11	1	4		1		1		5	1
45 Ulcer of stomach and duodenum 531-533	1	1		1							
46 Appendicitis 540-543											
47 Hernia & intestinal obstruction 550-553,560	1	1		1							
48 Chronic liver disease and cirrhosis 571	5	4	1					3		1	1
49 Cholelithiasis and other disorders of gall bladder 574-575											
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	3	3						1		2	
51 Infections of kidney 590	1	1						1			
52 Hyperplasia of prostate 600	1	1				1					
53 Complications of pregnancy, childbirth, and the puerperium 630-676											
54 Congenital anomalies 740-759	2	2				2					
55 Certain conditions originating in the perinatal period 760-779	4		4		2		1				1
56 Symptoms and ill-defined conditions 780-799	2		2								2
57 All other diseases Residual	31	18	13	6	7	6		3	1	3	5
58 Accidents E800-E949	26	17	9	5	4	7	2	2		3	3
59 Motor vehicle accidents E810-E825	6	4	2	1	1	2				1	1
60 Home accidents (Home) E850-E949	4	2	2	1		1					2
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	16	11	5	3	3	4	2	2		2	
62 Suicide E950-E959	10	6	4	2	2	1			1	3	1
63 Homicide and legal intervention E960-E978	4	2	2	1		1					2
64 Other external causes E980-E999	1	1						1			

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 18

Cause of Death	Planning District 18			Essex		Gloucester		King and Queen	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	624	439	185	49	25	138	34	40	29
1 Shigellosis and amebiasis 004,006									
2 Certain other intestinal infections 007-009									
3 Tuberculosis, all forms 010-018									
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036	2	2		1					
7 Septicemia 038	5	1	4		1		1		
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070									
11 Syphilis 090-097									
12 Other infectious & parasitic diseases Residual of 001-139	2	2				2			
13 Malignant neoplasms 140-208	134	97	37	11	4	27	8	11	7
14 Lip, oral cavity and pharynx 140-149	3	2	1	1					
15 Digestive organs and peritoneum 150-159	40	28	12	2	1	9	2	5	2
16 Respiratory & intrathoracic organs. 160-165	34	28	6	4	1	8	3	2	1
17 Breast 174-175	7	4	3	1			2		1
18 Genital organs 179-187	14	8	6	1		3		1	1
19 Urinary organs 188-189	7	4	3	1		1			
20 Other & unspecified sites 170-173,190-199	13	12	1	1		4		1	1
21 Leukemia 204-208	7	7				1		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	9	4	5		2	1	1	1	1
23 Benign neoplasms and neoplasms of unspecified nature 210-239	3	2	1		1	1			
24 Diabetes mellitus 250	12	5	7		4	1	2		
25 Nutritional deficiencies 260-269									
26 Anemias 280-285	3	2	1			1		1	
27 Meningitis 320-322									
28 Major cardiovascular diseases 390-448	310	221	89	26	6	63	15	13	14
29 Diseases of heart 390-398,402,404-429	236	179	57	20	4	54	14	9	7
30 Rheumatic fever and rheumatic heart disease 390-398									
31 Hypertensive heart disease 402	5	2	3						1
32 Hypertensive heart & renal disease 404									
33 Ischemic heart disease 410-414	164	126	38	16	3	38	10	6	4
34 Acute myocardial infarction 410	96	78	18	12	1	22	2	4	2
35 Other ischemic heart disease 411-414	68	48	20	4	2	16	8	2	2
36 Other diseases of endocardium 424	1	1							
37 All other forms of heart disease 415-423,425-429	66	50	16	4	1	16	4	3	2
38 Hypertension 401,403	4	3	1					1	
39 Cerebrovascular diseases 430-438	56	30	26	6	2	6	1	3	6
40 Atherosclerosis 440	4	1	3						1
41 Other diseases of arteries, arterioles, and capillaries 441-448	10	8	2			3			
42 Acute bronchitis and bronchiolitis 466									
43 Pneumonia and influenza 480-487	24	18	6	1	1	9	2	4	1
44 Chronic obstructive pulmonary diseases. 490-496	13	10	3	4		3			
45 Ulcer of stomach and duodenum 531-533									
46 Appendicitis 540-543									
47 Hernia & intestinal obstruction 550-553,560	1	1							
48 Chronic liver disease and cirrhosis 571	5	5				3		1	
49 Cholelithiasis and other disorders of gall bladder 574-575	1	1							
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	9	4	5			1	2		1
51 Infections of kidney 590									
52 Hyperplasia of prostate 600									
53 Complications of pregnancy, childbirth, and the puerperium 630-676									
54 Congenital anomalies 740-759	6	3	3	2	1	1	1		
55 Certain conditions originating in the perinatal period 760-779	4	2	2	1				1	2
56 Symptoms and ill-defined conditions 780-799	3	2	1		1	1			
57 All other diseases Residual	36	28	8	2	3	12	1	4	
58 Accidents E800-E949	32	20	12	1	1	7	2	4	3
59 Motor vehicle accidents E810-E825	19	12	7	1	1	6	2	2	1
60 Home accidents (Home) E850-E949	4	3	1					1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	9	5	4			1		1	2
62 Suicide E950-E959	11	8	3		1	3		1	1
63 Homicide and legal intervention E960-E978	8	5	3		1	3			
64 Other external causes E980-E999									

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 18 (continued)

Cause of Death	King William		Mathews		Middlesex	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	54	44	77	26	81	27
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018						
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036	1					
7 Septicemia 038	1	2				
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139						
13 Malignant neoplasms 140-208	11	5	19	7	18	6
14 Lip, oral cavity and pharynx 140-149	1			1		
15 Digestive organs and peritoneum 150-159	1	2	6	2	5	3
16 Respiratory & intrathoracic organs. 160-165	3		5		6	1
17 Breast 174-175			1		2	
18 Genital organs 179-187			2	3	1	2
19 Urinary organs 188-189		2	1	1	1	
20 Other & unspecified sites 170-173,190-199	4				2	
21 Leukemia 204-208	1		3		1	
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	1	1	1			
23 Benign neoplasms and neoplasms of unspecified nature 210-239					1	
24 Diabetes mellitus 250	1	1	2		1	
25 Nutritional deficiencies 260-269						
26 Anemias 280-285						1
27 Meningitis 320-322						
28 Major cardiovascular diseases 390-448	28	27	42	12	49	15
29 Diseases of heart 390-398,402,404-429	23	13	32	9	41	10
30 Rheumatic fever and rheumatic heart disease 390-398						
31 Hypertensive heart disease 402		1	1		1	1
32 Hypertensive heart & renal disease 404						
33 Ischemic heart disease 410-414	15	7	23	8	28	6
34 Acute myocardial infarction 410	6	4	13	5	21	4
35 Other ischemic heart disease 411-414	9	3	10	3	7	2
36 Other diseases of endocardium 424	1					
37 All other forms of heart disease 415-423,425-429	7	5	8	1	12	3
38 Hypertension 401,403			2			1
39 Cerebrovascular diseases 430-438	4	11	6	2	5	4
40 Atherosclerosis 440	1	1		1		
41 Other diseases of arteries, arterioles, and capillaries 441-448		2	2		3	
42 Acute bronchitis and bronchiolitis 466						
43 Pneumonia and influenza 480-487	1		2	2	1	
44 Chronic obstructive pulmonary diseases. 490-496	1	1		2	2	
45 Ulcer of stomach and duodenum 531-533						
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560	1					
48 Chronic liver disease and cirrhosis 571	1					
49 Cholelithiasis and other disorders of gall bladder 574-575	1					
50 Nephritis, nephrotic syndrome, and nephrosis 580-589		1	1		2	1
51 Infections of kidney 590						
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676						
54 Congenital anomalies 740-759		1				
55 Certain conditions originating in the perinatal period 760-779						
56 Symptoms and ill-defined conditions 780-799	1					
57 All other diseases Residual	4	3	4	1	2	
58 Accidents E800-E949	1	3	5	2	2	1
59 Motor vehicle accidents E810-E825	1	2	1	1	1	
60 Home accidents (Home) E850-E949		1	1		1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949			3	1		1
62 Suicide E950-E959	1		1		2	1
63 Homicide and legal intervention E960-E978			1		1	2
64 Other external causes E980-E999						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 19

Cause of Death	Planning District 19			Dinwiddie		Greensville		Prince George		Surry	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	1,489	890	599	111	87	50	61	65	28	35	34
1 Shigellosis and amebiasis 004,006											
2 Certain other intestinal infections 007-009											
3 Tuberculosis, all forms 010-018	3	1	2								
4 Whooping cough 033											
5 Streptococcal sore throat, scarlatina and erysipelas 034-035											
6 Meningococcal infection 036											
7 Septicemia 038	10	7	3	2			1			1	1
8 Acute poliomyelitis 045											
9 Measles 055											
10 Viral hepatitis 070											
11 Syphilis 090-097	1	1						1			
12 Other infectious & parasitic diseases Residual of 001-139	3	2	1					1			1
13 Malignant neoplasms 140-208	286	170	116	23	15	7	7	12	3	7	6
14 Lip, oral cavity and pharynx 140-149	3	3		1							
15 Digestive organs and peritoneum 150-159	81	41	40	5	2		1	1		3	1
16 Respiratory & intrathoracic organs. 160-165	70	42	28	5	5	2	3	3	1	1	3
17 Breast 174-175	22	13	9	3	4	1					
18 Genital organs 179-187	42	23	19	3	3	2	3	1		1	2
19 Urinary organs 188-189	4	4						2			
20 Other & unspecified sites 170-173,190-199	38	27	11	4				4		2	
21 Leukemia 204-208	15	10	5	1		1		1	1		
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	11	7	4	1	1	1			1		
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1	1									
24 Diabetes mellitus 250	24	6	18		4	1	1	1			3
25 Nutritional deficiencies 260-269	1	1									
26 Anemias 280-285	2	1	1	1							
27 Meningitis 320-322	1	1		1							
28 Major cardiovascular diseases 390-448	753	468	285	60	43	25	37	30	17	14	10
29 Diseases of heart 390-398,402,404-429	556	360	196	50	26	19	27	19	11	10	6
30 Rheumatic fever and rheumatic heart disease 390-398	2	1	1								
31 Hypertensive heart disease 402	17	6	11		1		1				
32 Hypertensive heart & renal disease 404	9	5	4		2			1			
33 Ischemic heart disease 410-414	435	296	139	42	18	17	20	16	8	6	6
34 Acute myocardial infarction 410	209	141	68	20	9	11	10	12	6	4	3
35 Other ischemic heart disease 411-414	226	155	71	22	9	6	10	4	2	2	3
36 Other diseases of endocardium 424	3	1	2		1					1	
37 All other forms of heart disease 415-423,425-429	90	51	39	8	4	2	6	2	3	3	
38 Hypertension 401,403	11	3	8	1	1		1	2			1
39 Cerebrovascular diseases 430-438	159	85	74	7	15	6	8	8	6	4	2
40 Atherosclerosis 440	14	10	4	1	1		1				
41 Other diseases of arteries, arterioles, and capillaries 441-448	13	10	3	1				1			1
42 Acute bronchitis and bronchiolitis 466											
43 Pneumonia and influenza 480-487	36	23	13		2		1	3		4	1
44 Chronic obstructive pulmonary diseases. 490-496	37	22	15	2	4	3		1	1	1	
45 Ulcer of stomach and duodenum 531-533	3	2	1			1					
46 Appendicitis 540-543	1	1									
47 Hernia & intestinal obstruction 550-553,560	5	4	1	1							
48 Chronic liver disease and cirrhosis 571	20	13	7	3	2	2	1	1			
49 Cholelithiasis and other disorders of gall bladder 574-575	2	2		1							
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	13	6	7	1	1				1		1
51 Infections of kidney 590	3	1	2								
52 Hyperplasia of prostate 600	1	1						1			
53 Complications of pregnancy, childbirth, and the puerperium 630-676											
54 Congenital anomalies 740-759	8	5	3			2	1		1		
55 Certain conditions originating in the perinatal period 760-779	35	13	22	1	1	2	3		2	1	1
56 Symptoms and ill-defined conditions 780-799	14	8	6	1	1		1				
57 All other diseases Residual	97	52	45	7	3	2	4	2	1	2	3
58 Accidents E800-E949	93	60	33	4	6	4	3	11	2	4	4
59 Motor vehicle accidents E810-E825	41	29	12	2	1	1		7	2	3	3
60 Home accidents (Home) E850-E949	29	16	13	1	4	2	2	2		1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	23	15	8	1	1	1	1	2			1
62 Suicide E950-E959	20	14	6	2	1	1		1		1	2
63 Homicide and legal intervention E960-E978	15	4	11	1	3		1				1
64 Other external causes E980-E999	1		1		1						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 19 (continued)

Cause of Death		Sussex		Colonial Heights		Emporia		Hopewell		Petersburg	
		White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
	All causes	44	76	144	3	34	26	173	36	234	248
1	Shigellosis and amebiasis 004,006										
2	Certain other intestinal infections 007-009										
3	Tuberculosis, all forms 010-018		1					1			1
4	Whooping cough 033										
5	Streptococcal sore throat, scarlatina and erysipelas 034-035										
6	Meningococcal infection 036										
7	Septicemia 038			2				1		1	1
8	Acute poliomyelitis 045										
9	Measles 055										
10	Viral hepatitis 070										
11	Syphilis 090-097										
12	Other infectious & parasitic diseases Residual of 001-139	1									
13	Malignant neoplasms 140-208	10	13	29	1	7	7	29	8	46	56
14	Lip, oral cavity and pharynx 140-149			2							
15	Digestive organs and peritoneum 150-159	4	4	11	1		1	7	5	10	25
16	Respiratory & intrathoracic organs. 160-165	1	1	6		2	1	7	1	15	13
17	Breast 174-175		1				1	4		5	3
18	Genital organs 179-187	1	4	4		1	2	3	1	7	4
19	Urinary organs 188-189									2	
20	Other & unspecified sites 170-173,190-199	1	3	4		2	2	7		3	6
21	Leukemia 204-208	1		1		1		1	1	3	3
22	Other neoplasms of lymphatic and hematopoietic tissues 200-203	2		1		1				1	2
23	Benign neoplasms and neoplasms of unspecified nature 210-239									1	
24	Diabetes mellitus 250		2				1		2	4	5
25	Nutritional deficiencies 260-269									1	
26	Anemias 280-285		1								
27	Meningitis 320-322										
28	Major cardiovascular diseases 390-448	23	38	80	2	21	8	86	15	129	115
29	Diseases of heart 390-398,402,404-429	18	31	61	2	18	7	72	8	93	78
30	Rheumatic fever and rheumatic heart disease 390-398								1	1	
31	Hypertensive heart disease 402		2	1			1	3		2	6
32	Hypertensive heart & renal disease 404		1	3			1	1			
33	Ischemic heart disease 410-414	15	20	47	2	17	2	57	4	79	59
34	Acute myocardial infarction 410	7	12	19	1	4	2	33	2	31	23
35	Other ischemic heart disease 411-414	8	8	28	1	13		24	2	48	36
36	Other diseases of endocardium 424										1
37	All other forms of heart disease 415-423,425-429	3	8	10		1	3	11	3	11	12
38	Hypertension 401,403		1								4
39	Cerebrovascular diseases 430-438	3	6	16		2	1	11	5	28	31
40	Atherosclerosis 440			3				1	1	5	1
41	Other diseases of arteries, arterioles, and capillaries 441-448	2				1		2	1	3	1
42	Acute bronchitis and bronchiolitis 466										
43	Pneumonia and influenza 480-487		5	4		2		5		5	4
44	Chronic obstructive pulmonary diseases. 490-496		4	2		1	1	5	1	7	4
45	Ulcer of stomach and duodenum 531-533			1							1
46	Appendicitis 540-543					1					
47	Hernia & intestinal obstruction 550-553,560			2				1			1
48	Chronic liver disease and cirrhosis 571	2		1			1	2		2	3
49	Cholelithiasis and other disorders of gall bladder 574-575			1							
50	Nephritis, nephrotic syndrome, and nephrosis 580-589			1		1		1	1	2	3
51	Infections of kidney 590						1	1			1
52	Hyperplasia of prostate 600										
53	Complications of pregnancy, childbirth, and the puerperium 630-676										
54	Congenital anomalies 740-759							1		2	1
55	Certain conditions originating in the perinatal period 760-779		2				3	5	1	4	9
56	Symptoms and ill-defined conditions 780-799			2				2	1	3	3
57	All other diseases Residual	2	9	10			2	15	2	12	21
58	Accidents E800-E949	6	1	9		1	2	9	4	12	11
59	Motor vehicle accidents E810-E825	4		2		1	1	7	1	2	4
60	Home accidents (Home) E850-E949			5			1	1		4	6
61	All other accidents E800-E807,E826-E849 (Other) E850-E949	2	1	2				1	3	6	1
62	Suicide E950-E959							8	1	1	2
63	Homicide and legal intervention E960-E978							1		2	6
64	Other external causes E980-E999										

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 20

Cause of Death	Planning District 20			Isle of Wight		Southampton		Chesapeake	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	6,051	3,803	2,248	91	78	79	81	503	229
1 Shigellosis and amebiasis 004,006									
2 Certain other intestinal infections 007-009	3	2	1						
3 Tuberculosis, all forms 010-018	10	2	8				1		
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036	3	2	1						
7 Septicemia 038	39	22	17		2	1		1	
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070	2	2							
11 Syphilis 090-097	1	1				1			
12 Other infectious & parasitic diseases Residual of 001-139	13	6	7	1	1		1	1	
13 Malignant neoplasms 140-208	1,322	876	446	17	17	22	18	109	55
14 Lip, oral cavity and pharynx 140-149	35	18	17		1	2		2	1
15 Digestive organs and peritoneum 150-159	309	185	124	4	6	5	6	17	12
16 Respiratory & intrathoracic organs. 160-165	400	291	109	4	5	5	4	44	9
17 Breast 174-175	102	69	33				1	6	7
18 Genital organs 179-187	134	72	62	1	2	3	4	10	7
19 Urinary organs 188-189	50	36	14	2		1		3	
20 Other & unspecified sites 170-173,190-199	184	128	56	5	2	3	2	17	14
21 Leukemia 204-208	47	38	9		1	2		5	2
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	61	39	22	1		1	1	5	3
23 Benign neoplasms and neoplasms of unspecified nature 210-239	15	12	3			1		1	
24 Diabetes mellitus 250	99	39	60				1	10	4
25 Nutritional deficiencies 260-269	7	3	4				1	2	1
26 Anemias 280-285	3	2	1						1
27 Meningitis 320-322	3		3						
28 Major cardiovascular diseases 390-448	2,940	1,886	1,054	55	39	43	37	255	100
29 Diseases of heart 390-398,402,404-429	2,289	1,508	781	41	24	37	32	217	76
30 Rheumatic fever and rheumatic heart disease 390-398	13	11	2					4	
31 Hypertensive heart disease 402	91	36	55	1		3	2	6	3
32 Hypertensive heart & renal disease 404	21	5	16		3				3
33 Ischemic heart disease 410-414	1,596	1,119	477	28	17	28	24	167	50
34 Acute myocardial infarction 410	834	587	247	16	12	19	17	89	23
35 Other ischemic heart disease 411-414	762	532	230	12	5	9	7	78	27
36 Other diseases of endocardium 424	8	5	3					1	
37 All other forms of heart disease 415-423,425-429	560	332	228	12	4	6	6	39	20
38 Hypertension 401,403	20	7	13	2	2	2			1
39 Cerebrovascular diseases 430-438	495	278	217	7	10	3	4	31	21
40 Atherosclerosis 440	69	39	30	1	2	1	1	3	
41 Other diseases of arteries, arterioles, and capillaries 441-448	67	54	13	4	1			4	2
42 Acute bronchitis and bronchiolitis 466	2	1	1					1	
43 Pneumonia and influenza 480-487	121	75	46		2		4	14	4
44 Chronic obstructive pulmonary diseases. 490-496	151	117	34	1	1	1	1	16	6
45 Ulcer of stomach and duodenum 531-533	10	6	4						1
46 Appendicitis 540-543	2	1	1					1	
47 Hernia & intestinal obstruction 550-553,560	13	8	5						
48 Chronic liver disease and cirrhosis 571	76	44	32					4	4
49 Cholelithiasis and other disorders of gall bladder 574-575	4	3	1	1					
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	66	28	38				2	6	2
51 Infections of kidney 590	16	10	6						
52 Hyperplasia of prostate 600	2	2							
53 Complications of pregnancy, childbirth, and the puerperium 630-676									
54 Congenital anomalies 740-759	61	42	19		1	2		7	4
55 Certain conditions originating in the perinatal period 760-779	121	50	71	2	2		1	6	14
56 Symptoms and ill-defined conditions 780-799	49	24	25			1	2	3	4
57 All other diseases Residual	406	232	174	7	8	4	4	31	15
58 Accidents E800-E949	281	174	107	2	3	3	6	25	10
59 Motor vehicle accidents E810-E825	111	68	43		2		4	11	4
60 Home accidents (Home) E850-E949	78	50	28	2		2	1	8	4
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	92	56	36		1	1	1	6	2
62 Suicide E950-E959	97	89	8	3	1			9	
63 Homicide and legal intervention E960-E978	107	41	66	2	1		2	1	4
64 Other external causes E980-E999	6	1	5						

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 20 (continued)

	Cause of Death		Franklin City		Norfolk		Portsmouth		Suffolk		Virginia Beach	
			White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
	All causes		36	41	1,270	947	615	462	233	243	976	167
1	Shigellosis and amebiasis	004,006										
2	Certain other intestinal infections	007-009			1		1			1		
3	Tuberculosis, all forms	010-018			1	3		2			1	2
4	Whooping cough	033										
5	Streptococcal sore throat, scarlatina and erysipelas	034-035										
6	Meningococcal infection	036			2	1						
7	Septicemia	038		1	8	8	1	2	2	3	9	1
8	Acute poliomyelitis	045										
9	Measles	055										
10	Viral hepatitis	070			2							
11	Syphilis	090-097										
12	Other infectious & parasitic diseases ..... Residual of	001-139			2	2	1	2		1	1	
13	Malignant neoplasms	140-208	10	10	290	189	151	82	45	42	232	33
14	Lip, oral cavity and pharynx	140-149	1	1	3	8	2	5	1		7	1
15	Digestive organs and peritoneum	150-159	2	2	73	48	31	27	4	12	49	11
16	Respiratory & intrathoracic organs	160-165	2	2	93	48	52	23	18	13	73	5
17	Breast	174-175	1	2	26	8	11	8	3	3	22	4
18	Genital organs	179-187	1	2	17	29	8	6	5	6	27	6
19	Urinary organs	188-189	1		13	8	8	1		3	8	2
20	Other & unspecified sites	170-173,190-199	1	1	42	25	26	7	6	3	28	2
21	Leukemia	204-208	1		12	2	7	3	4		7	1
22	Other neoplasms of lymphatic and hematopoietic tissues	200-203			11	13	6	2	4	2	11	1
23	Benign neoplasms and neoplasms of unspecified nature	210-239			5	2	2			1	3	
24	Diabetes mellitus	250		3	14	26	6	9	1	14	8	3
25	Nutritional deficiencies	260-269				1		1			1	
26	Anemias	280-285			1				1			
27	Meningitis	320-322				1		1				1
28	Major cardiovascular diseases	390-448	19	18	643	459	313	222	130	113	428	66
29	Diseases of heart	390-398,402,404-429	13	13	504	329	258	166	104	85	334	56
30	Rheumatic fever and rheumatic heart disease	390-398			1	1	2		2		2	1
31	Hypertensive heart disease	402			17	30	1	12	1	6	7	2
32	Hypertensive heart & renal disease	404			3	2	2	4		3		1
33	Ischemic heart disease	410-414	11	8	367	186	200	102	70	53	248	37
34	Acute myocardial infarction	410	7	3	170	94	123	51	40	31	123	16
35	Other ischemic heart disease	411-414	4	5	197	92	77	51	30	22	125	21
36	Other diseases of endocardium	424			1	1	1	2			2	
37	All other forms of heart disease	415-423,425-429	2	5	115	109	52	46	31	23	75	15
38	Hypertension	401,403		1	2	5		3	1	1		
39	Cerebrovascular diseases	430-438	6	4	104	102	46	47	18	22	63	7
40	Atherosclerosis	440			13	18	3	3	3	4	15	2
41	Other diseases of arteries, arterioles, and capillaries	441-448			20	5	6	3	4	1	16	1
42	Acute bronchitis and bronchiolitis	466				1						
43	Pneumonia and influenza	480-487		1	26	19	10	11	4	4	21	1
44	Chronic obstructive pulmonary diseases	490-496	1	1	41	12	18	6	9	3	30	4
45	Ulcer of stomach and duodenum	531-533		1	5			1			1	1
46	Appendicitis	540-543				1						
47	Hernia & intestinal obstruction	550-553,560			2	3	2	2	3		1	
48	Chronic liver disease and cirrhosis	571	1		13	13	7	6	5	5	14	4
49	Cholelithiasis and other disorders of gall bladder	574-575					2			1		
50	Nephritis, nephrotic syndrome, and nephrosis	580-589			7	12	2	8		9	3	5
51	Infections of kidney	590			3	3	5	2		1	2	
52	Hyperplasia of prostate	600			1		1					
53	Complications of pregnancy, childbirth, and the puerperium	630-676										
54	Congenital anomalies	740-759		1	14	6	8	7			11	
55	Certain conditions originating in the perinatal period	760-779		2	13	28	4	14	1	2	24	8
56	Symptoms and ill-defined conditions	780-799			8	9	3	5	1	1	8	4
57	All other diseases	Residual	3	2	79	80	38	29	19	20	51	16
58	Accidents	E800-E949	2	1	47	34	17	22	8	17	70	14
59	Motor vehicle accidents	E810-E825	1	1	16	11	4	8	4	6	32	7
60	Home accidents (Home)	E850-E949			16	8	9	8	1	5	12	2
61	All other accidents	E800-E807,E826-E849 (Other) E850-E949	1		15	15	4	6	3	6	26	5
62	Suicide	E950-E959			25	4	14	2	2	1	36	
63	Homicide and legal intervention	E960-E978			17	27	9	25	2	4	10	3
64	Other external causes	E980-E999				3		1			1	1

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 21

Cause of Death	Planning District 21			James City County		York		Hampton	
	Total	White	Nonwh	White	Nonwh	White	Nonwh	White	Nonwh
All causes	2,216	1,439	777	82	54	100	41	523	275
1 Shigellosis and amebiasis 004,006									
2 Certain other intestinal infections 007-009									
3 Tuberculosis, all forms 010-018	2		2						
4 Whooping cough 033									
5 Streptococcal sore throat, scarlatina and erysipelas 034-035									
6 Meningococcal infection 036	2	2							
7 Septicemia 038	21	11	10		1	2		5	1
8 Acute poliomyelitis 045									
9 Measles 055									
10 Viral hepatitis 070	1		1		1				
11 Syphilis 090-097									
12 Other infectious & parasitic diseases Residual of 001-139	5	4	1			1		1	1
13 Malignant neoplasms 140-208	513	352	161	17	10	32	9	131	62
14 Lip, oral cavity and pharynx 140-149	12	8	4	1				2	1
15 Digestive organs and peritoneum 150-159	128	75	53	4	1	6	4	26	18
16 Respiratory & intrathoracic organs 160-165	151	109	42	6	4	8	4	48	14
17 Breast 174-175	39	28	11	1	1	3		6	3
18 Genital organs 179-187	61	33	28	4	3	3	1	11	12
19 Urinary organs 188-189	15	13	2			1		6	1
20 Other & unspecified sites 170-173,190-199	70	57	13		1	6		20	8
21 Leukemia 204-208	12	11	1			1		6	1
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	25	18	7	1		4		6	4
23 Benign neoplasms and neoplasms of unspecified nature 210-239	10	6	4					2	1
24 Diabetes mellitus 250	25	12	13	2			1	5	8
25 Nutritional deficiencies 260-269	5	2	3					1	2
26 Anemias 280-285	4		4						2
27 Meningitis 320-322	1	1						1	
28 Major cardiovascular diseases 390-448	1,031	673	358	34	27	42	17	241	123
29 Diseases of heart 390-398,402,404-429	828	545	283	30	18	28	14	204	102
30 Rheumatic fever and rheumatic heart disease 390-398	3	3				1			
31 Hypertensive heart disease 402	12	7	5	1				5	2
32 Hypertensive heart & renal disease 404	5	2	3		1			1	1
33 Ischemic heart disease 410-414	587	403	184	23	10	19	9	157	68
34 Acute myocardial infarction 410	360	244	116	16	5	15	6	99	43
35 Other ischemic heart disease 411-414	227	159	68	7	5	4	3	58	25
36 Other diseases of endocardium 424	6	4	2		1			2	
37 All other forms of heart disease 415-423,425-429	215	126	89	6	6	8	5	39	31
38 Hypertension 401,403	7	3	4		1				1
39 Cerebrovascular diseases 430-438	158	96	62	3	8	11	2	29	16
40 Atherosclerosis 440	17	12	5	1		3	1	3	3
41 Other diseases of arteries, arterioles, and capillaries 441-448	21	17	4					5	1
42 Acute bronchitis and bronchiolitis 466	1	1							
43 Pneumonia and influenza 480-487	63	35	28	7		2	2	6	12
44 Chronic obstructive pulmonary diseases 490-496	50	40	10	3	1	2		13	3
45 Ulcer of stomach and duodenum 531-533	1	1							
46 Appendicitis 540-543									
47 Hernia & intestinal obstruction 550-553,560	6	3	3					2	2
48 Chronic liver disease and cirrhosis 571	29	18	11	1	1	2		9	2
49 Cholelithiasis and other disorders of gall bladder 574-575	6	5	1			1		2	
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	25	14	11	1	1		1	7	1
51 Infections of kidney 590	4	2	2				1		1
52 Hyperplasia of prostate 600									
53 Complications of pregnancy, childbirth, and the puerperium 630-676	2		2						2
54 Congenital anomalies 740-759	23	16	7		1	1		4	3
55 Certain conditions originating in the perinatal period 760-779	39	23	16		1	1	2	9	5
56 Symptoms and ill-defined conditions 780-799	19	11	8		1			5	4
57 All other diseases Residual	154	100	54	8	6	6	4	36	20
58 Accidents E800-E949	96	69	27	4	3	4	1	29	9
59 Motor vehicle accidents E810-E825	33	23	10	2	2	1		7	3
60 Home accidents (Home) E850-E949	20	15	5					8	2
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	43	31	12	2	1	3	1	14	4
62 Suicide E950-E959	39	26	13	5		3		8	7
63 Homicide and legal intervention E960-E978	36	11	25			1	2	6	4
64 Other external causes E980-E999	3	1	2				1		

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 21 (continued)

Cause of Death	Newport News		Poquoson		Williamsburg	
	White	Nonwh	White	Nonwh	White	Nonwh
All causes	615	389	44		75	18
1 Shigellosis and amebiasis 004,006						
2 Certain other intestinal infections 007-009						
3 Tuberculosis, all forms 010-018		2				
4 Whooping cough 033						
5 Streptococcal sore throat, scarlatina and erysipelas 034-035						
6 Meningococcal infection 036	2					
7 Septicemia 038	4	8				
8 Acute poliomyelitis 045						
9 Measles 055						
10 Viral hepatitis 070						
11 Syphilis 090-097						
12 Other infectious & parasitic diseases Residual of 001-139	2					
13 Malignant neoplasms 140-208	145	76	9		18	4
14 Lip, oral cavity and pharynx 140-149	3	2	1		1	1
15 Digestive organs and peritoneum 150-159	35	28	1		3	2
16 Respiratory & intrathoracic organs. 160-165	39	20	5		3	
17 Breast 174-175	11	7	1		6	
18 Genital organs 179-187	15	11				1
19 Urinary organs 188-189	6	1				
20 Other & unspecified sites 170-173,190-199	27	4			4	
21 Leukemia 204-208	4					
22 Other neoplasms of lymphatic and hematopoietic tissues 200-203	5	3	1		1	
23 Benign neoplasms and neoplasms of unspecified nature 210-239	1	2	2		1	1
24 Diabetes mellitus 250	4	4	1			
25 Nutritional deficiencies 260-269		1			1	
26 Anemias 280-285		1				1
27 Meningitis 320-322						
28 Major cardiovascular diseases 390-448	302	183	17		37	8
29 Diseases of heart 390-398,402,404-429	243	144	16		24	5
30 Rheumatic fever and rheumatic heart disease 390-398	2					
31 Hypertensive heart disease 402	1	3				
32 Hypertensive heart & renal disease 404	1	1				
33 Ischemic heart disease 410-414	179	96	9		16	1
34 Acute myocardial infarction 410	97	61	6		11	1
35 Other ischemic heart disease 411-414	82	35	3		5	
36 Other diseases of endocardium 424		1	2			
37 All other forms of heart disease 415-423,425-429	60	43	5		8	4
38 Hypertension 401,403	1	2			2	
39 Cerebrovascular diseases 430-438	43	34	1		9	2
40 Atherosclerosis 440	5					1
41 Other diseases of arteries, arterioles, and capillaries 441-448	10	3			2	
42 Acute bronchitis and bronchiolitis 466	1					
43 Pneumonia and influenza 480-487	15	14	2		3	
44 Chronic obstructive pulmonary diseases. 490-496	20	6	1		1	
45 Ulcer of stomach and duodenum 531-533	1					
46 Appendicitis 540-543						
47 Hernia & intestinal obstruction 550-553,560	1	1				
48 Chronic liver disease and cirrhosis 571	5	7			1	1
49 Cholelithiasis and other disorders of gall bladder 574-575	2	1				
50 Nephritis, nephrotic syndrome, and nephrosis 580-589	5	8			1	
51 Infections of kidney 590	2					
52 Hyperplasia of prostate 600						
53 Complications of pregnancy, childbirth, and the puerperium 630-676						
54 Congenital anomalies 740-759	9	3	1		1	
55 Certain conditions originating in the perinatal period 760-779	13	7				1
56 Symptoms and ill-defined conditions 780-799	5	3	1			
57 All other diseases Residual	40	23	3		7	1
58 Accidents E800-E949	24	13	6		2	1
59 Motor vehicle accidents E810-E825	11	4	2			
60 Home accidents (Home) E850-E949	5	3	1		1	
61 All other accidents E800-E807,E826-E849 (Other) E850-E949	8	6	3		1	
62 Suicide E950-E959	7	6	1		2	
63 Homicide and legal intervention E960-E978	4	19				
64 Other external causes E980-E999	1	1				

TABLE 45 - DEATHS BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE BY RACE BY CAUSE, VIRGINIA, 1979
PLANNING DISTRICT 22

	Cause of Death		Planning District 22			Accomack		Northampton	
			Total	White	Nonwh	White	Nonwh	White	Nonwh
	All causes		607	402	205	304	124	98	81
1	Shigellosis and amebiasis	004,006							
2	Certain other intestinal infections	007-009							
3	Tuberculosis, all forms	010-018	2	2				2	
4	Whooping cough	033							
5	Streptococcal sore throat, scarlatina and erysipelas	034-035							
6	Meningococcal infection	036							
7	Septicemia	038	4	1	3	1	2		1
8	Acute poliomyelitis	045							
9	Measles	055							
10	Viral hepatitis	070							
11	Syphilis	090-097							
12	Other infectious & parasitic diseases ..... Residual of	001-139	5	5		3		2	
13	Malignant neoplasms	140-208	139	95	44	67	29	28	15
14	Lip, oral cavity and pharynx	140-149	1	1		1			
15	Digestive organs and peritoneum	150-159	42	33	9	20	2	13	7
16	Respiratory & intrathoracic organs	160-165	47	28	19	20	16	8	3
17	Breast	174-175	10	7	3	5	2	2	1
18	Genital organs	179-187	20	12	8	10	6	2	2
19	Urinary organs	188-189	1	1		1			
20	Other & unspecified sites	170-173,190-199	13	8	5	7	3	1	2
21	Leukemia	204-208	2	2		2			
22	Other neoplasms of lymphatic and hematopoietic tissues	200-203	3	3		1		2	
23	Benign neoplasms and neoplasms of unspecified nature	210-239							
24	Diabetes mellitus	250	7	2	5	1	4	1	1
25	Nutritional deficiencies	260-269							
26	Anemias	280-285	3	2	1	1	1	1	
27	Meningitis	320-322	1		1				1
28	Major cardiovascular diseases	390-448	304	206	98	160	57	46	41
29	Diseases of heart	390-398,402,404-429	210	146	64	117	42	29	22
30	Rheumatic fever and rheumatic heart disease	390-398	2	1	1	1	1		
31	Hypertensive heart disease	402	16	11	5	10	5	1	
32	Hypertensive heart & renal disease	404	1		1				1
33	Ischemic heart disease	410-414	147	105	42	81	26	24	16
34	Acute myocardial infarction	410	109	77	32	57	20	20	12
35	Other ischemic heart disease	411-414	38	28	10	24	6	4	4
36	Other diseases of endocardium	424	3	2	1	2	1		
37	All other forms of heart disease	415-423,425-429	41	27	14	23	9	4	5
38	Hypertension	401,403	4	2	2	2	2		
39	Cerebrovascular diseases	430-438	71	45	26	31	11	14	15
40	Atherosclerosis	440	12	8	4	5	1	3	3
41	Other diseases of arteries, arterioles, and capillaries	441-448	7	5	2	5	1		1
42	Acute bronchitis and bronchiolitis	466							
43	Pneumonia and influenza	480-487	11	7	4	5	1	2	3
44	Chronic obstructive pulmonary diseases	490-496	14	11	3	10	2	1	1
45	Ulcer of stomach and duodenum	531-533	2	1	1	1	1		
46	Appendicitis	540-543							
47	Hernia & intestinal obstruction	550-553,560	2	2		1		1	
48	Chronic liver disease and cirrhosis	571	5	3	2	3	2		
49	Cholelithiasis and other disorders of gall bladder	574-575	2	1	1	1			1
50	Nephritis, nephrotic syndrome, and nephrosis	580-589	3		3		2		1
51	Infections of kidney	590	3	2	1	2	1		
52	Hyperplasia of prostate	600	1		1		1		
53	Complications of pregnancy, childbirth, and the puerperium	630-676							
54	Congenital anomalies	740-759	5	4	1	2	1	2	
55	Certain conditions originating in the perinatal period	760-779	7	2	5	2	3		2
56	Symptoms and ill-defined conditions	780-799	2		2		1		1
57	All other diseases	Residual	47	33	14	27	9	6	5
58	Accidents	E800-E949	25	15	10	12	4	3	6
59	Motor vehicle accidents	E810-E825	11	7	4	6	2	1	2
60	Home accidents (Home)	E850-E949	10	4	6	3	2	1	4
61	All other accidents E800-E807,E826-E849 (Other)	E850-E949	4	4		3		1	
62	Suicide	E950-E959	4	4		3		1	
63	Homicide and legal intervention	E960-E978	6	3	3	2	2	1	1
64	Other external causes	E980-E999	3	1	2		1	1	1

TABLE 46
MARRIAGES BY TYPE OF CEREMONY BY MONTH
VIRGINIA, 1979

Month	Total	Type of Ceremony		
		Religious	Civil	Unknown
TOTAL	58,678	44,221	14,448	9
January	2,994	2,059	934	1
February	3,378	2,380	997	1
March	4,097	2,894	1,202	1
April	4,722	3,565	1,157	
May	4,986	3,805	1,181	
June	7,397	6,067	1,330	
July	5,492	4,104	1,387	1
August	6,183	4,701	1,482	
September	5,326	4,200	1,125	1
October	4,582	3,416	1,165	1
November	4,553	3,342	1,209	2
December	4,968	3,688	1,279	1

TABLE 47
MARRIAGES BY PREVIOUS MARITAL STATUS OF BRIDE BY PREVIOUS MARITAL STATUS OF GROOM
ACCORDING TO RACE OF GROOM, VIRGINIA, 1979

Previous Marital Status of Groom	Total	Previous Marital Status of Bride				
		Single	Widowed	Divorced	Annulled	Unknown
TOTAL	58,678	38,299	2,612	17,719	12	36
Single	37,513	31,278	413	5,805	5	12
Widowed	2,206	327	1,016	858	1	4
Divorced	18,916	6,677	1,174	11,045	3	17
Annulled	10	4	1	2	3	
Unknown	33	13	8	9		3
WHITE (Total)	49,775	31,494	2,245	15,998	10	28
Single	30,851	25,551	301	4,983	5	11
Widowed	1,872	227	902	743		
Divorced	17,018	5,701	1,036	10,262	3	16
Annulled	9	4	1	2	2	
Unknown	25	11	5	8		1
NONWHITE (Total)	8,903	6,805	367	1,721	2	8
Single	6,662	5,727	112	822		1
Widowed	334	100	114	115	1	4
Divorced	1,898	976	138	783		1
Annulled	1				1	
Unknown	8	2	3	1		2

TABLE 48 - MARRIAGES BY PLACE OF MARRIAGE, RESIDENCE OF BRIDE, AND RESIDENCE OF GROOM BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979

Planning District/ City or County	PLACE OF MARRIAGE			RESIDENCE OF BRIDE			RESIDENCE OF GROOM		
	Total	White*	Nonwhite*	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	58,678	49,775	8,903	58,678	49,989	8,689	58,678	49,775	8,903
District 1	2,309	2,282	27	854	845	9	883	874	9
Lee	401	397	4	177	176	1	182	182	
Scott	493	491	2	217	215	2	197	196	1
Wise	1,337	1,319	18	460	454	6	503	495	8
Norton	78	75	3				1	1	
District 2	4,853	4,796	57	1,386	1,383	3	1,353	1,347	6
Buchanan	934	931	3	358	358		382	381	1
Dickenson	2,714	2,700	14	251	251		222	222	
Russell	535	530	5	355	354	1	302	301	1
Tazewell	670	635	35	422	420	2	447	443	4
District 3	1,866	1,824	42	1,403	1,379	24	1,336	1,315	21
Bland	67	64	3	33	33		45	45	
Carroll	216	215	1	206	204	2	184	182	2
Grayson	113	110	3	107	105	2	115	114	1
Smyth	315	313	2	289	287	2	275	274	1
Washington	440	432	8	390	382	8	381	372	9
Wythe	278	273	5	216	215	1	214	210	4
Bristol	370	351	19	155	147	8	116	112	4
Galax	67	66	1	7	6	1	6	6	
District 4	2,994	2,904	90	1,249	1,217	32	1,258	1,215	43
Floyd	77	74	3	83	80	3	72	69	3
Giles	1,924	1,871	53	192	188	4	190	186	4
Montgomery	577	563	14	558	546	12	572	557	15
Pulaski	299	287	12	306	296	10	318	304	14
Radford	117	109	8	110	107	3	106	99	7
District 5	2,862	2,625	237	2,404	2,197	207	2,230	2,018	212
Alleghany	210	208	2	102	100	2	107	101	6
Botetourt	179	173	6	185	181	4	179	173	6
Craig	37	37		28	28		28	28	
Roanoke	330	325	5	612	601	11	569	556	13
Clifton Forge	143	131	12	51	42	9	32	29	3
Covington	294	274	20	85	78	7	79	73	6
Roanoke City	1,451	1,266	185	1,092	923	169	1,017	848	169
Salem	218	211	7	249	244	5	219	210	9
District 6	2,036	1,962	74	1,821	1,756	65	1,758	1,691	67
Augusta	368	363	5	480	464	16	479	462	17
Bath	133	131	2	59	58	1	56	52	4
Highland	30	30		17	17		18	18	
Rockbridge	120	118	2	130	127	3	137	133	4
Rockingham	435	432	3	625	614	11	598	591	7
Buena Vista	82	77	5	59	56	3	56	53	3
Harrisonburg	242	234	8	17	17		18	18	
Lexington	96	90	6	72	68	4	65	61	4
Staunton	338	308	30	201	184	17	188	170	18
Waynesboro	192	179	13	161	151	10	143	133	10
District 7	3,239	3,129	110	1,175	1,133	42	1,133	1,090	43
Clarke	100	93	7	66	60	6	70	64	6
Frederick	549	540	9	320	316	4	293	289	4
Page	182	174	8	169	163	6	168	161	7
Shenandoah	258	253	5	231	228	3	228	227	1
Warren	221	217	4	194	187	7	190	182	8
Winchester	1,929	1,852	77	195	179	16	184	167	17
District 8	10,334	8,920	1,414	8,561	7,722	839	8,068	7,174	894
Arlington	2,237	1,742	495	1,269	1,081	188	1,233	1,043	190
Fairfax	2,895	2,724	171	4,305	4,018	287	3,901	3,581	320
Loudoun	448	431	17	424	414	10	405	388	17
Prince William	919	850	69	1,295	1,204	91	1,276	1,188	88
Alexandria	1,867	1,380	487	1,047	794	253	1,040	775	265
Fairfax City	1,232	1,103	129	139	133	6	134	127	7
Falls Church	351	333	18	77	74	3	68	62	6
Manassas	377	349	28	3	3		9	8	1
Manassas Park	8	8		2	1	1	2	2	
District 9	776	659	117	704	603	101	697	596	101
Culpeper	195	164	31	190	161	29	184	159	25
Fauquier	315	261	54	265	227	38	273	232	41
Madison	75	69	6	52	44	8	61	51	10
Orange	122	103	19	125	105	20	123	104	19
Rappahannock	69	62	7	72	66	6	56	50	6
District 10	1,268	1,075	193	1,205	1,027	178	1,170	995	175
Albemarle	316	288	28	468	418	50	434	383	51
Fluvanna	57	43	14	70	55	15	68	50	18
Greene	61	56	5	57	51	6	56	51	5
Louisa	139	106	33	142	108	34	152	120	32
Nelson	110	94	16	100	84	16	99	83	16
Charlottesville	585	488	97	368	311	57	361	308	53
District 11	1,728	1,444	284	1,617	1,365	252	1,568	1,321	247
Amherst	224	188	36	210	187	23	203	178	25
Appomattox	95	79	16	87	76	11	85	73	12
Bedford	231	200	31	258	224	34	265	231	34
Campbell	329	287	42	386	343	43	376	333	43
Bedford City	103	91	12	39	33	6	30	24	6
Lynchburg	746	599	147	637	502	135	609	482	127

*Refers to the race of the groom.

(continued)

TABLE 48 - MARRIAGES BY PLACE OF MARRIAGE, RESIDENCE OF BRIDE, AND RESIDENCE OF GROOM BY RACE, BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, 1979 (continued)

Planning District/ City or County	PLACE OF MARRIAGE			RESIDENCE OF BRIDE			RESIDENCE OF GROOM		
	Total	White*	Nonwhite*	Total	White	Nonwhite	Total	White	Nonwhite
STATE OF VIRGINIA	58,678	49,775	8,903	58,678	49,989	8,689	58,678	49,775	8,903
District 12	2,180	1,686	494	2,005	1,554	451	1,929	1,498	431
Franklin	246	210	36	251	214	37	260	224	36
Henry	433	381	52	547	445	102	528	424	104
Patrick	155	138	17	122	110	12	128	119	9
Pittsylvania	471	322	149	518	363	155	511	358	153
Danville	564	425	139	413	311	102	370	273	97
Martinsville	311	210	101	154	111	43	132	100	32
District 13	712	439	273	619	381	238	587	353	234
Brunswick	109	65	44	96	49	47	89	47	42
Halifax	263	168	95	293	187	106	284	173	111
Mecklenburg	265	164	101	211	132	79	202	127	75
South Boston	75	42	33	19	13	6	12	6	6
District 14	648	471	177	610	435	175	585	418	167
Amelia	59	40	19	58	39	19	65	45	20
Buckingham	76	60	16	79	61	18	76	60	16
Charlotte	92	72	20	93	67	26	77	58	19
Cumberland	54	37	17	50	33	17	53	35	18
Lunenburg	97	68	29	101	74	27	103	72	31
Nottoway	136	100	36	120	88	32	108	83	25
Prince Edward	134	94	40	109	73	36	103	65	38
District 15	5,599	4,205	1,394	5,719	4,342	1,377	5,515	4,166	1,349
Charles City Co.	42	17	25	41	14	27	44	15	29
Chesterfield	766	714	52	1,140	1,062	78	1,085	1,015	70
Goochland	104	68	36	93	58	35	81	49	32
Hanover	420	353	67	367	319	48	367	317	50
Henrico	993	948	45	1,782	1,619	163	1,582	1,406	176
New Kent	67	44	23	65	38	27	63	42	21
Powhatan	110	77	33	80	64	16	89	68	21
Richmond City	3,097	1,984	1,113	2,151	1,168	983	2,204	1,254	950
District 16	952	810	142	925	802	123	876	751	125
Caroline	127	77	50	129	85	44	148	105	43
King George	78	62	16	65	54	11	65	47	18
Spotsylvania	175	153	22	269	237	32	255	227	28
Stafford	268	244	24	280	265	15	258	239	19
Fredericksburg	304	274	30	182	161	21	150	133	17
District 17	335	234	101	297	207	90	280	194	86
Lancaster	86	70	16	75	60	15	63	47	16
Northumberland	95	64	31	82	60	22	75	53	22
Richmond	42	30	12	40	28	12	46	35	11
Westmoreland	112	70	42	100	59	41	96	59	37
District 18	395	291	104	386	281	105	375	285	90
Essex	62	42	20	73	49	24	61	43	18
Gloucester	122	104	18	127	109	18	132	115	17
King and Queen	28	16	12	27	13	14	33	18	15
King William	69	39	30	62	34	28	57	32	25
Mathews	58	47	11	50	39	11	43	37	6
Middlesex	56	43	13	47	37	10	49	40	9
District 19	1,878	1,193	685	1,319	893	426	1,264	849	415
Dinwiddie	125	84	41	153	111	42	145	103	42
Greensville	48	16	32	78	33	45	86	34	52
Prince George	233	184	49	145	113	32	139	114	25
Surry	29	14	15	36	14	22	32	15	17
Sussex	76	33	43	71	28	43	59	31	28
Colonial Heights	247	238	9	178	176	2	149	144	5
Emporia	344	156	188	41	23	18	40	26	14
Hopewell	237	194	43	253	210	43	254	213	41
Petersburg	539	274	265	364	185	179	360	169	191
District 20	7,806	5,847	1,959	7,341	5,506	1,835	6,923	5,141	1,782
Isle of Wight	160	107	53	159	106	53	148	98	50
Southampton	147	85	62	160	83	77	163	85	78
Chesapeake	621	472	149	842	624	218	778	575	203
Franklin City	66	27	39	19	12	7	26	12	14
Norfolk	2,968	2,090	878	2,472	1,688	784	2,341	1,598	743
Portsmouth	1,071	667	404	926	590	336	844	518	326
Suffolk	359	181	178	342	180	162	346	185	161
Virginia Beach	2,414	2,218	196	2,421	2,223	198	2,277	2,070	207
District 21	3,522	2,720	802	3,148	2,387	761	2,993	2,260	733
James City Co.	88	62	26	170	122	48	143	104	39
York	220	204	16	282	252	30	245	228	17
Hampton	1,129	881	248	1,172	875	297	1,089	810	279
Newport News	1,598	1,140	458	1,385	1,015	370	1,370	989	381
Poquoson	57	57		36	36		35	35	
Williamsburg	430	376	54	103	87	16	111	94	17
District 22	317	214	103	278	181	97	276	179	97
Accomack	198	143	55	164	112	52	166	110	56
Northampton	119	71	48	114	69	45	110	69	41
Unknown Virginia	65	43	22	5	3	2			
Out-of-State	4	2	2	13,647	12,390	1,257	15,621	14,045	1,576

*Refers to the race of the groom.

TABLE 49 - MARRIAGES BY AGE OF BRIDE BY AGE OF GROOM, VIRGINIA, 1979

AGE OF GROOM (in years)	Total	AGE OF BRIDE (in years)																														
		Under 15	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 +	Unk.
TOTAL	58,678	77	250	1,980	2,343	5,462	4,700	4,525	4,195	4,274	3,624	3,095	2,737	2,269	1,988	1,769	1,463	1,400	1,209	1,169	805	737	3,063	1,845	1,306	833	592	452	317	143	55	1
Under 15 .	2		1																					1								
15	4	1		1	1	1							1	1																		
16	152	6	10	64	26	34	7	2	1				1	1						1												
17	565	8	25	170	140	122	52	29	2	5	3	3	1	1	1			2		1												
18	2,322	20	79	435	419	725	300	143	72	38	20	18	16	11	7	5	3	2	1	1	2	1	3	1								
19	3,210	21	52	363	435	970	601	355	123	86	73	35	17	21	13	8	10	12	4	1	3	2	3	1	1							
20	4,017	5	26	306	422	964	832	608	348	181	92	84	46	29	31	19	16	16	9	4	3	2	11	3								
21	4,242	3	19	235	262	792	764	724	551	332	186	104	62	59	35	32	19	9	10	9	7	1	21	2								
22	4,422	3	16	115	183	594	567	660	697	680	359	166	95	79	46	33	26	28	18	14	12	8	20	2	1							
23	4,070	3	6	77	153	341	410	509	568	629	500	286	166	118	78	64	37	29	18	25	11	5	32	4			1					
24	3,676	1	8	55	97	257	301	381	456	527	456	352	242	164	94	67	65	44	25	20	11	11	29	10	1	1						1
25	3,299	2	1	43	63	184	235	282	325	392	394	386	321	182	130	100	61	50	42	27	15	14	42	5	3							
26	2,845	2	1	31	28	128	185	212	233	315	333	303	307	216	159	120	61	55	40	32	22	11	40	8	3							
27	2,478		2	13	32	81	104	146	191	249	250	270	243	205	189	139	95	80	53	43	24	18	43	5	3							
28	2,206	1	2	19	23	52	87	126	151	175	197	203	236	186	174	149	105	88	39	49	26	32	67	13	5	1						
29	1,972			15	5	46	66	73	110	135	169	165	189	181	174	158	125	82	56	54	31	30	80	19	6	2	1					
30	1,707		1	8	17	29	39	63	81	99	117	125	164	141	139	124	110	128	79	66	39	28	78	24	6	1		1				
31	1,585			8	4	24	38	38	82	92	93	125	114	123	128	112	122	96	105	76	52	39	83	21	8	1	1					
32	1,565			2	8	27	30	44	43	92	82	106	120	122	107	125	99	86	105	85	46	41	144	34	12	4			1			
33	1,076			2	1	23	13	20	39	46	48	66	73	78	74	72	67	69	60	64	57	36	123	29	11	3	1	1				
34	1,078			1	1	10	11	21	39	42	58	49	58	69	79	78	82	57	61	74	60	49	126	38	10	4			1			
35-39	4,015	1	1	9	18	39	44	50	83	110	125	170	165	169	216	213	227	261	263	289	203	162	775	295	99	18	6	2	1		1	
40-44	2,498			1	3	13	10	27	20	32	47	47	62	66	68	89	76	121	132	133	92	123	621	429	205	53	21	5	3			
45-49	1,772			3	1	4	2	9	10	10	15	14	27	34	22	32	31	46	48	65	52	72	401	414	300	105	37	15	2		1	
50-54	1,355					1	1	1	6	3	5	13	5	9	12	18	17	30	22	21	19	31	190	282	306	216	99	34	12	1	1	
55-59	960			2	1		1		3	3	2	3	4	3	6	6	6	7	14	10	13	10	79	121	192	205	157	69	25	9	1	
60-64	631			1				2	1	1		2	2	2	1	2	2	2	3	3	5	4	35	49	78	128	131	129	40	6	2	
65-69	475			1		1										3			1	1			13	23	43	60	86	103	104	30	6	
70-74	266															1			1	2			2	5	7	25	29	60	73	50	11	
75+	213												1		1		1						2	7	6	6	22	33	55	47	32	

TABLE 50
DIVORCES (INCLUDING ANNULMENTS) BY RACE BY MONTH OF DECREE
VIRGINIA, 1979

Month	Total	Final Divorces		Annulments	
		White	Nonwhite	White	Nonwhite
TOTAL	23,555	19,678	3,877	102	17
January	1,778	1,509	269	5	1
February	1,501	1,268	233	13	
March	1,889	1,604	285	8	
April	1,908	1,611	297	6	1
May	2,117	1,732	385	6	2
June	1,965	1,607	358	11	3
July	1,950	1,619	331	4	1
August	2,179	1,815	364	9	
September	1,940	1,606	334	12	3
October	2,105	1,756	349	12	1
November	1,957	1,648	309	10	1
December	2,266	1,903	363	6	4

TABLE 51
DIVORCES (INCLUDING ANNULMENTS) BY RACE OF HUSBAND BY PLACE OF MARRIAGE
AND NUMBER OF MINOR CHILDREN IN FAMILY, VIRGINIA, 1979

Place of Marriage/Minor Children	Total	White	Nonwhite
ALL DIVORCES AND ANNULMENTS	23,555	19,678	3,877
By place of marriage:			
State of Virginia	14,636	11,771	2,865
Outside of Virginia	8,912	7,903	1,009
Unknown	7	4	3
By number of minor children in family:			
No children	9,734	8,419	1,315
1 child	6,427	5,243	1,184
2 children	4,326	3,556	770
3 children	1,481	1,164	317
4 children	414	299	115
5 children	106	66	40
6 children	26	15	11
7 children	6	2	4
8 children	5	3	2
9 children	1	1	
10 children or more			
Unknown	1,029	910	119

TABLE 52 - DIVORCES (INCLUDING ANNULMENTS) BY RACE OF HUSBAND AND CAUSE OF DIVORCE
BY PLANNING DISTRICT AND CITY OR COUNTY WHERE GRANTED, VIRGINIA, 1979

Planning District/ City or County	ALL DIVORCES (Including Annulments)			CAUSE OF DIVORCE					
	Total	White	Nonwhite	Separation	Desertion	Adultery	Imprison-ment	Other & Unknown	Annul-ments
STATE OF VIRGINIA	23,555	19,678	3,877	19,223	3,199	489	54	471	119
District 1	314	312	2	158	130	6	1	12	7
Lee	91	90	1	61	26	3		1	
Scott	25	25		15	8			2	
Wise	198	197	1	82	96	3	1	9	7
Norton	(Included with Wise County)								
District 2	440	438	2	300	100	15	2	17	6
Buchanan	105	105		81	14	5	1	3	1
Dickenson	66	66		41	21	1		2	1
Russell	92	91	1	58	22	5		5	2
Tazewell	177	176	1	120	43	4	1	7	2
District 3	673	656	17	492	144	8	3	19	7
Bland	21	21		15	5	1			
Carroll	126	124	2	82	30	3	1	8	2
Grayson	79	78	1	38	38			3	
Smyth	144	142	2	122	18	3		1	
Washington	137	137		108	23	1	1	3	1
Wythe	83	82	1	77	3				3
Bristol	83	72	11	50	27		1	4	1
Galax	(Included with Carroll & Grayson Cos.)								
District 4	593	574	19	498	59	17	1	13	5
Floyd	42	42		32	6		1	2	1
Giles	69	69		50	13	2		4	
Montgomery	256	247	9	213	26	11		5	1
Pulaski	184	178	6	165	11	3		2	3
Radford	42	38	4	38	3	1			
District 5	1,326	1,222	104	853	331	33	7	97	5
Alleghany	94	91	3	73	10	1		10	
Botetourt	87	85	2	72	10	2		3	
Craig	23	23		11	8	1		3	
Roanoke	386	381	5	236	107	10		31	2
Clifton Forge	16	14	2	7	4	1		4	
Covington	(Included with Alleghany County)								
Roanoke City	602	511	91	372	168	15	5	39	3
Salem	118	117	1	82	24	3	2	7	
District 6	789	754	35	646	104	26	3	10	
Augusta	208	205	3	159	36	9		4	
Bath	18	18		12	4	1		1	
Highland	4	4		4					
Rockbridge	87	76	11	68	15	2		2	
Rockingham	246	238	8	219	17	7	2	1	
Buena Vista	27	25	2	21	3	2	1		
Harrisonburg	(Included with Rockingham County)								
Lexington	(Included with Rockbridge County)								
Staunton	107	99	8	90	14	2		1	
Waynesboro	92	89	3	73	15	3		1	
District 7	552	536	16	479	53	12	3	5	
Clarke	31	30	1	28	2	1			
Frederick	123	123		111	9	1	1	1	
Page	77	77		47	21	6	1	2	
Shenandoah	107	105	2	93	11	3			
Warren	91	90	1	83	6	1		1	
Winchester	123	111	12	117	4		1	1	
District 8	4,824	4,371	453	4,437	273	56	7	35	16
Arlington	719	631	88	672	40	3		3	1
Fairfax	2,552	2,391	161	2,359	137	36	2	12	6
Loudoun	251	228	23	233	13	1	2	2	
Prince William	662	634	28	595	47	7	2	6	5
Alexandria	640	487	153	578	36	9	1	12	4
Fairfax City	(Included with Fairfax County)								
Falls Church	(Included with Fairfax County)								
Manassas	(Included with Prince William Co.)								
Manassas Park	(Included with Prince William Co.)								
District 9	299	255	34	235	46	7	1	9	1
Culpeper	92	79	13	69	18	2	1	2	
Fauquier	98	86	12	87	6	3		1	1
Madison	33	30	3	25	5	1		2	
Orange	56	51	5	38	13	1		4	
Rappahannock	20	19	1	16	4				
District 10	605	529	76	537	47	11	1	9	
Albemarle	219	201	18	200	15	3		1	
Fluvanna	21	16	5	19	1	1			
Greene	20	20		15	3			2	
Louisa	65	51	14	50	10	2		3	
Nelson	49	44	5	45	2	2			
Charlottesville	231	197	34	208	16	3	1	3	
District 11	831	694	137	650	111	51	3	8	8
Amherst	108	88	20	82	15	9		1	1
Appomattox	47	43	4	25	20	1		1	
Bedford	144	130	14	108	23	9	1	2	1
Campbell	209	185	24	159	29	15	1		5
Bedford City	(Included with Bedford County)								
Lynchburg	323	248	75	276	24	17	1	4	1

(continued)

TABLE 52 - DIVORCES (INCLUDING ANNULMENTS) BY RACE OF HUSBAND AND CAUSE OF DIVORCE BY PLANNING DISTRICT AND CITY OR COUNTY WHERE GRANTED, VIRGINIA, 1979 (continued)

Planning District/ City or County	ALL DIVORCES (Including Annulments)			CAUSE OF DIVORCE					
	Total	White	Nonwhite	Separation	Desertion	Adultery	Imprisonment	Other & Unknown	Annulments
STATE OF VIRGINIA	23,555	19,678	3,877	19,223	3,199	489	54	471	119
District 12	822	672	150	651	133	22	1	12	3
Franklin	20	18	2	18	1			1	
Henry	266	234	32	201	54	5		3	3
Patrick	43	40	3	39	4				
Pittsylvania	193	146	47	145	33	9	1	5	
Danville	230	179	51	191	28	8		3	
Martinsville	70	55	15	57	13				
District 13	268	175	93	208	56		2	1	1
Brunswick	37	23	14	29	8				
Halifax	124	84	40	96	26			1	1
Mecklenburg	107	68	39	83	22		2		
South Boston	(Included with Halifax County)								
District 14	268	188	80	213	42	5	1	6	1
Amelia	28	21	7	19	6			3	
Buckingham	31	23	8	25	6				
Charlotte	35	23	12	27	6	2			
Cumberland	23	16	7	21	1	1			
Lunenburg	48	30	18	37	10	1			
Nottoway	48	43	5	42	4			2	
Prince Edward	55	32	23	42	9	1	1	1	1
District 15	3,278	2,539	739	2,518	572	68	4	100	16
Charles City Co.	23	6	17	17	5	1			
Chesterfield	706	659	47	484	171	27	1	19	4
Goochland	38	35	3	26	6			5	1
Hanover	213	194	19	164	37	5		6	1
Henrico	1,055	944	111	801	196	17	3	36	2
New Kent	20	12	8	16	3			1	
Powhatan	36	34	2	28	4	2		2	
Richmond City	1,187	655	532	362	150	16		31	8
District 16	475	416	59	390	45	20	1	18	1
Caroline	49	29	20	34	12			3	
King George	48	43	5	39	5	1		3	
Spotsylvania	119	105	14	102	7	4	1	4	1
Stafford	165	159	6	132	13	14		6	
Fredericksburg	94	80	14	83	8	1		2	
District 17	131	91	40	118	8	2		3	
Lancaster	34	20	14	31		2		1	
Northumberland	29	21	8	27	1			1	
Richmond	30	22	8	22	7			1	
Westmoreland	38	28	10	38					
District 18	181	135	46	149	20	3	2	7	
Essex	36	23	13	27	5	2		2	
Gloucester	63	51	12	53	7			3	
King and Queen	23	13	10	20	1		2		
King William	17	13	4	15	2				
Mathews	27	23	4	22	4	1			
Middlesex	15	12	3	12	1			2	
District 19	715	497	218	544	129	17	2	19	4
Dinwiddie	65	54	11	44	17	1		3	
Greensville	63	28	35	50	12	1			
Prince George	71	60	11	52	12	2		4	1
Surry	19	12	7	17		1			1
Sussex	27	8	19	24	2	1			
Colonial Heights	114	114		82	24	5	1	2	
Emporia	(Included with Greensville County)								
Hopewell	142	119	23	105	29	2		6	
Petersburg	214	102	112	170	33	4	1	4	2
District 20	4,175	3,177	998	3,384	636	69	5	52	29
Isle of Wight	55	41	14	50	5				
Southampton	77	36	41	72	5				
Chesapeake	561	447	114	427	117	6	1	6	4
Franklin City	(Included with Southampton County)								
Norfolk	1,354	938	416	1,161	135	17	2	27	12
Portsmouth	566	344	222	414	134	8	1	4	5
Suffolk	200	106	94	182	16				1
Virginia Beach	1,362	1,265	97	1,078	224	38		15	7
District 21	1,801	1,313	488	1,576	154	40	3	19	9
James City Co.	92	73	19	75	14	2		1	
York	164	136	28	139	13	5		5	2
Hampton	550	387	163	499	31	11	3	4	2
Newport News	958	687	271	828	94	22		9	5
Poquoson	(Included with York County)								
Williamsburg	37	30	7	35	2				
District 22	195	124	71	187	6	1	1		
Accomack	148	93	55	143	3	1	1		
Northampton	47	31	16	44	3				

TABLE 53 - DIVORCES (INCLUDING ANNULMENTS) BY DURATION OF MARRIAGE AND PERSON GRANTED DIVORCE BY PLAINTIFF AND CAUSE OF DIVORCE, VIRGINIA, 1979

Cause	PLAINTIFF	TOTAL	DURATION OF MARRIAGE IN YEARS																		GRANTED TO		
			Under 1 Year	1	2	3	4	5	6	7	8	9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Unk.	Husband	Wife	Other & Unknown
ALL CAUSES	Total	23,555	94	839	1,662	1,874	1,947	1,870	1,693	1,554	1,324	1,211	4,026	2,316	1,537	876	462	173	81	16	9,038	14,300	217
	Husband	8,957	42	335	609	671	727	664	611	561	480	474	1,481	938	616	383	226	96	37	6	8,455	428	74
	Wife	14,585	52	504	1,052	1,202	1,220	1,205	1,080	991	843	736	2,542	1,377	921	493	236	77	44	10	579	13,866	140
	Oth./Unk.	13			1	1		1	2	2	1	1	3	1							4	6	3
Separation for more than one year	Total	19,223	23	563	1,292	1,507	1,619	1,568	1,420	1,294	1,083	1,022	3,369	1,899	1,256	704	375	149	68	12	7,552	11,496	175
	Husband	7,437	13	220	466	521	598	546	520	450	412	407	1,293	807	539	331	193	85	32	4	7,103	269	65
	Wife	11,776	10	343	825	985	1,021	1,022	899	842	670	614	2,074	1,091	717	373	182	64	36	8	445	11,223	108
	Oth./Unk.	10			1	1			1	2	1	1	2	1							4	4	2
Desertion	Total	3,199	6	206	267	275	243	221	209	192	184	145	497	303	215	132	69	19	12	4	1,151	2,026	22
	Husband	1,178		91	109	112	101	99	77	86	57	52	150	99	61	39	29	10	4	2	1,058	115	5
	Wife	2,019	6	115	158	163	142	122	131	106	127	93	346	204	154	93	40	9	8	2	93	1,909	17
	Oth./Unk.	2							1				1									2	
Adultery, Sodomy	Total	489	12	20	36	40	43	39	31	33	29	30	63	52	31	20	8	2			229	259	1
	Husband	232	10	14	21	29	21	13	11	17	9	14	24	24	13	8	3	1			203	28	1
	Wife	257	2	6	15	11	22	26	20	16	20	16	39	28	18	12	5	1			26	231	
	Oth./Unk.																						
Imprisonment	Total	54		3	4	7	6	7	5	2	4	3	10	1	2						2	52	
	Husband	3			1	1	1														2	1	
	Wife	51		3	3	6	5	7	5	2	4	3	10	1	2							51	
	Oth./Unk.																						
Cruelty	Total	433		28	40	35	31	28	24	27	22	10	75	55	29	17	9	2	1		45	380	8
	Husband	44		4	1	2	5	4	2	3	2		8	7	1	3	1		1		33	11	
	Wife	389		24	39	33	26	24	22	24	20	10	67	48	28	14	8	2			12	369	8
	Oth./Unk.																						
Pregnancy by other before marriage	Total	1						1													1		
	Husband	1						1													1		
	Wife																						
	Oth./Unk.																						
Other/Unknown	Total	37	1		4	5	2	4	1	2	1		5	4	3	3	1	1			15	15	7
	Husband	16			3	3	1	1		1			2	1	2	2					14	2	
	Wife	20	1		1	2	1	2	1	1	1		3	3	1	1	1	1			1	13	6
	Oth./Unk.	1						1															1
Annulments	Total	119	52	19	19	5	3	2	3	4	1	1	7	2	1						43	72	4
	Husband	46	19	6	8	3			1	4		1	4								41	2	3
	Wife	73	33	13	11	2	3	2	2		1		3	2	1						2	70	1
	Oth./Unk.																						

TABLE 54 - DIVORCES (INCLUDING ANNULMENTS) BY AGE OF WIFE BY AGE OF HUSBAND, VIRGINIA, 1979

Age of Husband (in years)	Total	AGE OF WIFE (in years)																												
		Under 15	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 and Over	Unk.
TOTAL	23,555		4	16	46	148	261	491	747	962	1,083	1,218	1,264	1,246	1,196	1,137	1,083	1,098	1,073	1,069	747	698	3,044	1,909	1,263	745	387	191	77	44	24	284
Under 15 .																																
15																																
16																																
17	3					1	1							1																		
18	22			1	2	7	7		1	3	1																					
19	79			4	8	11	17	17	5	6		3	1	2	1		1					1			1							1
20	166		2	2	10	22	35	43	26	11	5	4	1					1						1								3
21	350		2	2	10	26	48	95	72	47	17	5	7	5	5	3			1				4									1
22	502			3	6	28	38	84	121	98	53	23	21	6	2	4	3	2	4	1				1								4
23	760			2	1	22	32	77	159	167	158	55	30	16	14	7	4		4	2	2		3			1						4
24	861				1	10	23	46	103	173	166	155	83	41	19	5	8	6	3	4	2	5	4		1							3
25	1,034			1	4	4	16	35	83	126	168	225	175	86	39	21	8	12	8	4	1	1	7	2		1						7
26	1,131				1	5	11	30	55	98	141	213	188	179	76	39	27	15	11	5	5	2	14	3	2							11
27	1,133				1	5	13	18	37	67	104	148	185	186	150	84	41	30	7	13	5	5	19	5		1		1					8
28	1,184				1		8	13	21	40	63	99	159	199	218	162	65	52	24	15	7	3	17	5	2			1				10
29	1,141						4	4	19	33	57	76	109	151	160	171	154	82	26	28	14	3	29	7	2							12
30	1,191					2	1	7	14	23	46	58	89	100	143	159	180	166	87	35	19	5	29	12	5	2						9
31	1,189							6	3	15	29	44	58	74	130	136	175	172	141	91	31	20	43	9	4	1	1					6
32	1,150							4	8	13	20	20	52	65	75	112	116	139	191	170	61	39	48	9	1	1					1	5
33	883							2	3	9	11	17	24	30	44	64	90	89	138	140	86	47	58	13	6	1						11
34	809			1		1			5	5	8	15	25	25	24	48	47	72	102	113	107	73	106	22	4							6
35-39	3,508					1	4	2	3	14	15	37	35	62	73	82	119	176	233	327	319	360	1,353	182	62	14	6					29
40-44	2,390					2	1	2	1	5	7	7	10	6	13	28	26	51	47	80	59	96	917	812	133	41	16	4				26
45-49	1,605								1	1		3	6	6	4	5	8	16	24	18	17	21	249	559	508	96	16	16	2	1		28
50-54	1,077							1		2		2			2	1	3	4	9	5	7	9	74	173	364	304	80	13	2			22
55-59	602										1					1	1	2	4	7	2	2	36	55	102	204	130	36	8	2	1	8
60-64	292								1		1					1		1				1	12	13	38	43	88	59	14	5	2	13
65-69	151													1		1	2		1			1	2	6	11	18	30	36	24	5	2	11
70-74	78																					1		4	3	6	8	12	17	17	4	6
75 & over .	57				1									1									1	3	3	2	3	7	9	12	14	1
Unknown ..	207					1	2	5	6	6	12	9	6	4	4	3	5	10	8	11	3	3	19	13	11	9	9	6	1	2		39

VIRGINIA STATE HEALTH DEPARTMENT

DIVISION REPORTS

ADMINISTRATION AND STAFF SERVICES

General administration and support services are provided for all agency programs by this Division through the Bureaus of Health Education and Information, Staff Development, Fiscal and Accounting Services, Data Processing, Purchasing and General Services, Personnel, and Internal Audit.

HEALTH EDUCATION AND INFORMATION

During fiscal year 1980, an internal reorganization in the State Health Department created a Division of Health Education and Information with two separate Bureaus; Health Education and Information Services. This structure clarifies the distinct functions performed by the Division in planning, developing, and organizing education and information programs designed to improve individual and community health. Information Services includes publications and audio-visual media that keep citizens of the Commonwealth informed about the availability of health services and the activities of the Health Department.

During 1980, Division personnel participated in numerous committees concerned with health education and information issues and programs. In cooperation with the Statewide Health Education Advisory Committee, the Eighth Annual Health Education Conference was held in Charlottesville in December. During this conference the group was involved in experiential programs promoting health.

Planning and research were conducted during the summer of 1979 for the risk reduction workshops for employees of the Norfolk Health Department. Three workshops on Eating Behaviors, Exercise Behaviors, and Smoking Behaviors were conducted for those employees identified as "at risk" by the Health Hazard Appraisal. During the pilot study, a second Health Hazard Appraisal was administered to the total volunteer population. In comparing the 1979 data with the 1980 data, it was discovered that the Health Hazard Appraisal had never been validated for reliability. Therefore, no conclusions could be drawn concerning the impact of the appraisal itself or the health education workshops. The number of participants in each workshop was too small due to mobility of staff, etc., to permit statistical analysis of the treatment groups with the control groups.

A workshop on health promotion and how these programs can be conducted in the worksite was developed and presented to occupational health nurses and management of industries in eleven Virginia localities.

The Health Education Risk Reduction project has been the focus of many activities for the Bureau of Health Education. Hours of community organization and grant writing work with voluntary health agencies, public schools, colleges and universities, health service agencies, etc., were involved in developing health education grant proposals on educational interventions to reduce health risks. A review committee ranked and forwarded thirteen proposals to the Center for Disease Control with the Basic Grant for second year continuation funding.

Student internships in the Division were provided for two health education undergraduates. A rape prevention program and a three-session workshop on stress reduction were conducted for Health Department employees by these students.

The Bureau of Information Services concentrated on providing timely and pertinent information via all media. Public service announcements for radio and television were produced concerning the WIC program. Also, slide shows were prepared for the hemophelia and low-level nuclear waste programs of the Department. Exhibits

were prepared on Home Health Services and the WIC program for display at State and county fairs and health meetings. Sixty news releases were written by the staff of the Bureau and were distributed to over 300 news outlets in the State. A monthly "canned" press release program was begun to provide local health departments with timely health news that could be adapted to local conditions for publication. In addition, over 500,000 copies of pamphlets and other printed health information materials were distributed.

The Virginia Health Bulletin was discontinued, and a new quarterly newspaper, "Virginia's Health," was begun in September, 1979. The film library, maintained by the Bureau of Information Services, was merged with the library of the Audio-visual Services section of the Department of Education expanding by over 365 the number of health education film titles available to health clients. Film usage continued to average 300 bookings per month.

The Bureau's information specialists handled many public relations situations such as the need for water conservation in Fredericksburg when an oil spill contaminated their water supply. A brochure was printed and special press releases were issued. Throughout the period, Bureau personnel arranged press coverage for various Department meetings and activities thus providing information to consumers in Virginia.

STAFF DEVELOPMENT

The Bureau of Staff Development is responsible for planning, organizing and administering inservice training programs for all employees in the State Department of Health. The training programs include orientation, on-the-job training, and introductory courses for new employees; periodic refresher courses for executive and key administrative personnel; and a graduate degree program. The Bureau maintains close contact with institutions of higher learning, the U.S. Public Health Service, and other agencies concerning technical advancement in the field of public health. Assistance is furnished to program directors in planning for special workshops and seminars, preparing visual aids, using audio-visual equipment, and distributing course announcements.

During fiscal year 1980, enrollment in Health Department/Bureau of Staff Development sponsored courses totaled 3,820. Forty-five different courses were offered. Several courses were given in one or more sessions; 129 sessions in all were required to accommodate the enrollment. A total of 328 actual days of instruction were provided.

On September 17, 1979, the Coordinator of Continuing Medical Education for The Medical Society of Virginia, advised the Health Department that its Continuing Medical Education Program was accredited for a four-year period (September 15, 1979, through September 15, 1983).

During the period February through June, 1980, the Training Advisory Committees, Headquarters, Divisions/Bureaus and Regional Medical Directors developed recommendations for training to be conducted during the 1980-82 biennium. These recommendations were reviewed by the Deputy and Assistant Commissioners of Health and submitted to the Commissioner of Health who approved them for implementation during the 1980-82 biennium. This review process insures that only necessary and meaningful training is being offered during a period of financial austerity. The rigid training review process exercised by the Health Department also insures positive compliance with Executive Order Number 57.

The most significant training accomplished during the 1980 fiscal year was the Employee Relations Training Program. This training was provided in response to a mandate issued by the General Assembly which brought about a new focus on employee relations management. To discharge its responsibilities in this important area, the Health Department provided a comprehensive training and instructional program for all supervisory personnel. This intensive training program provided each health district with the capability to conduct training for its staff members in the subjects of Performance Evaluation, Standards of Conduct and the Grievance Procedure.

The seven functioning Advisory Committees for Continuing Education continued to make very meaningful training recommendations which reflected field knowledge of the needs of Health Department personnel.

FISCAL AND ACCOUNTING SERVICES

The Bureau of Fiscal and Accounting Services provides budgeting, accounting and payroll services for all programs of the State Department of Health. Coordination is provided for budget preparation and control, and accounting records are maintained for all receipts and disbursements made. During fiscal year 1980, 89,099 payment vouchers representing expenditures of $498,320,114, and 12,452 certificates of deposit representing $282,931,698 in revenues were processed and audited. Payroll services were provided for the approximately 4,000 full-time and 600 part-time personnel positions in Health Department operations.

In addition to State appropriations, revenues are derived from Federal grants, local commitments and fees for services and licenses in various Health Department activities as shown in Table 55, entitled "Statement of Balances, Appropriations, Receipts and Disbursements for the Year Ending June 30, 1980." Periodic financial reports as required by Federal, State and local agencies are prepared from information maintained by the Bureau. This information is also used in the preparation of budgets and budget reports to satisfy requirements of Federal, State and local governing bodies.

In order to provide more efficient and effective budget and financial management for Health Department operations, efforts toward full coordination and utilization of the new computerized systems of the State Department of Planning and Budget and the State Department of Accounts are being continued. Efforts were made during fiscal year 1980 to improve utilization of the Commonwealth Accounting and Reporting System (CARS) which was developed and implemented for all State agencies on July 1, 1978, by the State Department of Accounts. The CARS system is being modified to provide the necessary financial information to fully implement a program budgeting system for all State operations. The new State program budgeting system (Probud) continued to develop during fiscal year 1980 for implementation in the preparation of State agency budgets for the biennium 1982-84. Also, during fiscal year 1980, new payroll procedures were initiated in a continuing effort to assure Health Department employees receive paychecks on scheduled State pay days. The Bureau of Fiscal and Accounting Services continues to explore fuller utilization of State budget and financial systems in lieu of costly internal agency budget and financial reporting systems.

DATA PROCESSING

The Data Processing Center coordinates and provides information processing, storage, and data retrieval services for the Health Department. Typical computerized activities are public health nursing, clinic activities, vital records, toxic substances, medical examiner's system, maternal and child health, crippled

children, chronic disease control, cancer registry, WIC, home health services, personnel, fiscal and accounting, planning, and environmental programs. The resulting data are used for administration, patient management, and program evaluation. Other areas are being studied for possible computerization, and some of those already computerized are being redesigned for better control, efficiency and economy.

Consultative service is provided to the Department in the areas of initial identification of needs, design and programming of the applications, design of forms for data collection and reporting, appropriate scheduling, field training, user education, and the required follow-up.

The Center also provides the necessary data entry capability utilizing a force of key entry operators. To insure that the results of the information processing procedures are accurate and produced in accordance with the user's specifications, the control section oversees the entire process from receipt of the data to the final output products.

The Center maintains 38 major operational systems, consisting of 1,485 computer programs.

The Data Processing Center operates under the guidelines of the Health Department's Information Policy Board, composed of the Deputy and Assistant Commissioners, and also works in conjunction with the Data Processing Users' Advisory Group whose members are the major users of the Center's facilities.

PURCHASING AND GENERAL SERVICES

The Bureau of Purchasing and General Services provides coordination for all the purchasing and supply functions, as well as all other activities of a general services nature, in the Central Office in Richmond and at 201 field locations throughout the Commonwealth. The activities of the four sections of the Bureau (Administration, Purchasing, Central Services, and Biologics and Drugs) include general insurance programs, equipment inventory, property management, real estate leases, contracts, surplus property management, telephone services, purchasing and supply, stockroom operations, mail and messenger services, central records storage, building alterations and repairs, and pharmacy operations.

The Bureau Director serves as liaison for the Department of Health in coordinating activities with the Department of General Services, Divisions of Purchases and Supply, and Engineering and Buildings, and the Virginia Public Telecommunications Council.

The Department's insurance program, which is maintained by the Bureau, includes workmen's compensation, automotive, medical malpractice, administrative negligence liability, marine, fire, boiler insurance, and a blanket employee surety bond. The annual premiums for these coverages are approximately $528,000. This is an increase of about $164,000, which is reflected in the general increase of insurance premiums, and more significantly, in the increased cost of workmen's compensation coverage, which is based on the total payrolls. The Bureau reviews and/or negotiates all real estate leases for the Department. As of June 30, 1980, the Department had 201 active leases throughout the Commonwealth, with a yearly rental of over $2,720,364.

During fiscal year 1980, the Purchasing Section processed 18,032 purchase requisitions and agency purchase orders. This was a 5 percent increase over fiscal year 1979, and resulted from normal growth in programs and services rendered.

A central warehouse is operated by the Central Services Section, for the purchase, storage, and distribution of forms and office, clinic, x-ray, dental and family planning supplies. Central Services shipped 4,947 orders during the fiscal year which represents an acquisition cost of $1,406,579, an increase of about $196,000 over fiscal year 1979. This 16 percent increase resulted from inflationary factors.

The Biologics and Drugs section processed 41,356 prescriptions and orders valued at $921,758. This represents a 1 percent decrease in numbers of prescriptions and orders, and a 69 percent increase in value over fiscal year 1979. The slight reduction in number of prescriptions resulted from a change in the method of accounting for hemophilia drugs dispensed. The significant increase in total value was caused by an increase in the hemophilia program and the increased cost of drugs in general. The total acquisition cost of shipments from Central Supply and the Pharmacy operations for fiscal year 1979 was $2,328,337.

The Biologics and Drugs section provides consulting services to all Health Department programs and local health departments, with or without their own pharmacy operations, in the areas of security and proper procedures for the distribution of patient drugs. The pharmacy director provides the necessary technical support for the established pharmacy operations, and advises local health directors regarding the establishment of new pharmacy locations.

A pharmacy news letter entitled THE QUARTER GRAIN is published by the Section on pharmacology topics of interest to the professional staff of the Department. This news letter and seminars are part of a program of continuing pharmacology education being carried out by the Biologics and Drugs section. A great amount of staff time has been directed toward staff support of the Virginia Voluntary Formulary Board in the continuing revision process of the Virginia Voluntary Formulary.

PERSONNEL

The Bureau of Personnel is responsible for providing direction, consultation and administration of personnel services for all employees within the Department of Health. Provisions under the Virginia Personnel Act of 1942 (as amended July 1, 1977) and the Joint Merit System Rules are administered by Personnel staff. The Bureau has the responsibility to acquaint, interpret, and advise employees concerning all facets of employment and personnel policy covered under these rules. The Director and his staff provide liaison services between the State Department of Health, the State Merit System Office, and the State Department of Personnel and Training.

During fiscal year 1980, the Bureau of Personnel was involved with implementation of Department of Personnel and Training policies which were developed with an emphasis in improving employee relations management within State agencies. A new performance evaluation system was established which provided a better measurement for individual performance and a standards of conduct policy was developed which established uniform standards by which all employees requiring disciplinary action may be treated alike. The Bureau assumed greater responsibility from the Department of Personnel and Training in maintaining original and permanent personnel records in the Agency. Also, the Bureau coordinated the efforts to convert all Health Department classifications into a new graded salary plan established for all State classified employees to become effective July 1, 1980.

Major programs administered by the Bureau of Personnel staff include grievance handling, equal employment opportunity, performance evaluation, classification, compensation, recruitment, career and retirement counseling, and worker's compensation. A complete history is maintained of an employee's career with the Health Department by processing appropriate transactions.

The Bureau has the responsibility of assisting the local health directors and the directors in the Central Office concerning personnel matters. All 135 local health departments throughout the State are affiliated with the State Department of Health and combined with the headquarter offices. The Bureau of Personnel is accountable for providing personnel services for 4,216 positions and currently approximately 3,900 employees. Personnel services may range from determining staffing needs and filling vacancies to discussing personnel policy and procedure.

INTERNAL AUDIT

The Bureau of Internal Audit assists management by determining whether the policies and procedures prescribed are properly carried out on a day-to-day basis. The Bureau is responsible for reviewing operations of the Central Office and local health departments and is responsible for internal control of the accounting systems and properly safeguarding the assets of the Commonwealth. Normal procedures for the Bureau include, but are not limited to, auditing, assessments of internal control, financial as well as program compliance, and financial systems studies for top management. Efficient operations and cost reduction recommendations are an important part of the audits completed by the Bureau.

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1980

STATE DEPARTMENT OF HEALTH Maintenance and Operation	Balance July 1, 1979		State Appropriations	Revenue	
	Federal	Special	1979-80	Federal	Other
ADMINISTRATION					
1 General Management			2,869,460		135
2 Accounting and Budgeting Services			394,550		12,500
3 Personnel Services		(8,994)	261,820		
4 Purchasing and General Services		696,869	503,405		2,450,559
5 Health Education			118,365		
6 Staff Development			73,765		
7 Data Processing					
TOTAL		687,875	4,221,365		2,463,194
HEALTH RESEARCH, PLANNING AND COORDINATION					
8 Health Planning	125,808		83,910	254,394	27,052
9 Resources and Development			50,220	122,490	
TOTAL	125,808		134,130	376,884	27,052
COMMUNICABLE AND CHRONIC DISEASE PREVENTION AND CONTROL					
10 Cancer Prevention and Control			377,645		
11 Epidemiology and Immunization			294,590		
12 Tuberculosis Prevention and Control		791	938,045		
13 Venereal Disease Prevention and Control			246,995		
TOTAL		791	1,857,275		
VITAL RECORDS AND HEALTH STATISTICS					
14 Health Statistics			381,590		
15 Registration Services			1,056,490		
TOTAL			1,438,080		
MEDICAL EXAMINER AND ANATOMICAL SERVICES					
16 Anatomical Services		12,159			128,666
17 Medical Examiner			898,085		
TOTAL		12,159	898,085		128,666
18 COMMUNITY HEALTH SERVICES	214,599	7,810,133	26,149,400	1,500,800	31,542,146
MEDICAID					
19 Administration	2,731,610		2,004,750	5,693,680	
20 Medical Care Services	145,389		151,750,350	206,710,700	
TOTAL	2,876,999		153,755,100	212,404,380	
EMERGENCY MEDICAL SERVICES					
21 Planning and Development			458,115		
22 Transportation and Services			141,620*		
TOTAL			599,735		
FAMILY HEALTH SERVICES					
23 Crippled Children Services	1,897,325	(5,960)	2,970,520	2,294,149	223,279
24 Child Development Clinics			797,960	797,960	
25 Crippled Children Projects	212,771			150,000	
26 Family Planning			187,745	187,745	
27 Family Planning Projects	2,416,931	(1,067,573)		3,938,555	2,130,814
28 Maternal and Child Health	(1,460,022)	130,833	924,415	2,426,983	38,985
29 Maternal and Child Health Projects		467,966		966,961	502,961
TOTAL	3,067,005	(474,734)	4,880,640	10,762,353	2,896,039
30 NUTRITIONAL SERVICES	(440,362)			14,775,300	
31 LAND MANAGEMENT (SOLID WASTE DISPOSAL)	128,100		895,840	235,055	
WATER QUALITY MANAGEMENT AND TECHNICAL ASSISTANCE					
32 Sewage and Wastewater Regulation		973,442	922,090		
33 Water Supply Engineering	509,505		388,395	795,112	
TOTAL	509,505	973,442	1,310,485	795,112	

*Highway Maintenance Funds

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1980 (continued)

Transfers to Other Funds	Transfers from Other Funds	Total Funds Available	Expenditures 1979-80	Balance June 30, 1980			
				State	Federal	Special	
42,457	251,027	3,078,165	3,165,457	(87,427)		135	1
	29,786	436,836	400,605	23,731		12,500	2
	88,569	341,395	345,160	1,774		(5,539)	3
	17,871	3,668,704	2,572,251	276,504		819,949	4
	10,921	129,286	134,018	(4,732)			5
	6,619	80,384	94,716	(14,332)			6
	66,852	66,852	61,622	5,230			7
42,457	471,645	7,801,622	6,773,829	200,748		827,045	
	16,724	507,888	468,112	3,170	29,411	7,195	8
	3,082	175,792	225,943	(3,115)	(46,566)	(470)	9
	19,806	683,680	694,055	55	(17,155)[2]	6,725	
		377,645	282,072	95,573			10
50,000		244,590	299,584	(54,994)			11
110	1,701,620	2,640,346	2,371,782	267,773		791	12
		246,995	160,054	86,941			13
50,110	1,701,620	3,509,576	3,113,492	395,293		791	
	25,274	406,864	438,843	(31,979)			14
	70,826	1,127,316	1,094,843	32,473			15
	96,100	1,534,180	1,533,686	494			
	1,449	142,274	72,374	15		69,885	16
1,449	89,230	985,866	925,286	60,580			17
1,449	90,679	1,128,140	997,660	60,595		69,885	
1,075,634		66,141,444	58,873,744	3,799	214,799	7,049,102	18
	80,735	10,510,775	7,940,991	(565,177)	3,134,961		19
	21,837,000	380,443,439	374,060,858	1,505,041	4,877,540		20
	21,917,735	390,954,214	382,001,849	939,864	8,012,501		
	285,970	744,085	519,663	7,710		216,712	21
12,577		129,043	129,043				22
12,577	285,970	873,128	648,706	7,710		216,712	
	76,639	7,455,952	5,487,891	34	1,942,913	25,114	23
	73,298	1,669,218	1,706,721	(22,064)	(95,439)[2]		24
		362,771	490,322		(127,551)		25
	13,756	389,246	342,847	30,078	16,321		26
		7,418,727	4,486,518		3,546,801[2]	(614,592)	27
16,500	57,887	2,102,581	2,760,686	(7,970)	(819,953)[2]	169,818	28
		1,937,888	2,250,465		(945,597)[2]	633,020	29
16,500	221,580	21,336,383	17,605,450	78	3,517,495	213,360	
		14,334,938	14,877,475		(542,537)[2]		30
		1,258,995	913,011	271,729	74,255		31
960,482	29,253	964,303	940,117	24,186			32
	33,792	1,726,804	1,269,618	(23,806)	480,992		33
960,482	63,045	2,691,107	2,209,735	380	480,992		

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1980 (continued)

STATE DEPARTMENT OF HEALTH Maintenance and Operation	Balance July 1, 1979		State Appropriations	Revenue	
	Federal	Special	1979-80	Federal	Other
DISEASE CARRIER AND VECTOR CONTROL					
34 Assistance to Mosquito Control Commissions			212,000		
35 Vector Control			45,050		
TOTAL			257,050		
36 HIGHER EDUCATION STUDENT FINANCIAL ASSISTANCE			121,000		
REGULATION OF FOOD					
37 Shellfish Sanitation			637,640		
REGULATION OF PUBLIC FACILITIES AND SERVICES					
38 Regulation of Health Care Facilities	250,258	5,585	257,145	298,338	57,172
39 Tourist Establishment Sanitation			508,495		
TOTAL	250,258	5,585	765,640	298,338	57,172
REGULATION OF INDIVIDUAL SAFETY					
40 O.S.H.A.	(19,513)		385,785	536,539	
REGULATION OF PRODUCTS					
41 Bedding and Upholstery Products		88,990			121,225
42 Radiological Materials			182,220		
43 Hazardous Products			312,700		
TOTAL		88,990	494,920		121,225
PERSONNEL SERVICES					
44 Joint Merit System Council			235,355		
45 FINANCIAL ASSISTANCE FOR INDIVIDUAL AND FAMILY SERVICES (Facility Construction)	20,791		[redacted]	1,420,191	
SPECIAL PUBLIC HEALTH IMPROVEMENT AND DEMONSTRATION SERVICES					
46 Tumor Registry Project	9,933				
47 Hospital Infections Program	(13,530)				
48 Evaluation Food Service Program	169	(130)			
49 Pratt Foundation Fund	7,167	(2,052)			20,000
50 Migrant Labor	(14,658)	14,124			
51 Immunization Project	17,366			311,631	
52 Health Underserved Rural Area	31,584			(41,483)	35,325
53 Health Facilities Statistics	466,768			374,020	
54 Health Manpower Statistics	(152,922)				
55 Vital Statistics	(153,311)				
56 Alcoholism Research	3,122				
57 Medicaid Physician Study	21,859				
58 Solid Waste Planning	(7,459)				
59 Influenza Immunization	(434)				
60 Cancer Screening Project	2,291				
61 Gonorrhea Project	18,864			504,935	
62 Nuclear Facilities Inspection	27,487			6,600	
63 Emergency Medical Tech. Training	364				
64 Comprehensive Alcoholism	55,763				
65 Lead Control Project	(181)	(36,183)			151,074
66 Cont. Education for Health Directors	81				
67 EMS Planning	17,580				
68 Household Interview Study	68,061	(33,219)			
69 EMS Planning - Rappahannock	(189)				
70 EMS System	(24,358)				
71 EMT Training - DHEW	2,815				
72 Renal Advisory Committee	947				
73 EMS Regional Development	(25,615)	38,495			
74 EMS Field Training Officer	(12,880)				
75 Eastern Shore Project	(3,591)				
76 Special Project Fund	1,388,402				
77 Hypertension Project	53,621			219,001	
78 EMS Statewide System	(780)			25,000	
79 X-Ray System Testing	1,615			9,640	
80 EMS Public Info./Education	(42,000)	42,000			

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1980 (continued)

Transfers to Other Funds	Transfers from Other Funds	Total Funds Available	Expenditures 1979-80	Balance June 30, 1980			
				State	Federal	Special	
		212,000	212,000				34
		45,050	37,072	7,978			35
		257,050	249,072	7,978			
		121,000	119,946	1,054			36
	47,055	684,695	684,645	50			37
	34,311	902,809	604,710	(16,192)	251,534	62,757	38
	28,414	536,909	520,717	16,192			39
	62,725	1,439,718	1,125,427		251,534	62,757	
	23,330	926,141	943,139		(16,998)[2]		40
		210,215	121,178			89,037	41
	9,020	191,240	190,854	386			42
	14,530	327,230	321,623	5,607			43
	23,550	728,685	633,655	5,993		89,037	
243,483	8,128						44
		1,440,982	1,420,191		20,791		45
9,933							46
	13,530						47
39							48
		25,115	7,081		7,167[1]	10,867	49
14,124	14,074	(584)	(584)				50
		328,997	281,408		47,589		51
35,325	35,354	25,455	25,455				52
565,632		275,156	69,050		206,106		53
	212,683	59,761	59,761				54
	352,949	199,638	199,638				55
3,122							56
		21,859	5,389		16,470[1]		57
	7,459						58
	434						59
2,291							60
		523,799	523,731		68		61
		34,087	19,806		14,281		62
364							63
55,763							64
		114,710	154,291		(181)[1]	(39,400)[2]	65
81							66
17,580							67
		34,842	20,734		68,061[1]	(53,953)	68
	189						69
	24,358						70
2,815							71
947							72
51,375	38,495						73
	12,880						74
	3,591						75
138,408	181,759	1,431,753			1,342,930	88,823	76
		272,622	264,923		7,699		77
	2	24,222	24,222				78
		11,255	449		10,806		79
			6,561		(42,000)[1]	35,439[2]	80

TABLE 55
STATEMENT OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1980 (continued)

STATE DEPARTMENT OF HEALTH Maintenance and Operation	Balance July 1, 1979		State Appropriations	Revenue	
	Federal	Special	1979-80	Federal	Other
SPECIAL PUBLIC HEALTH IMPROVEMENT AND DEMONSTRATION SERVICES (continued)					
81 Northern Neck HHS Project	(32)				
82 Shenandoah Agency on Aging	(879)	(2,813)			3,308
83 Tazewell Prenatal Project	3,809	(3,214)			6,500
84 MASH - Thomas Jefferson		1,416			19,525
85 Improved Pregnancy Outcome	62,243			200,000	
86 Middle Peninsula HHS Project	10,324			15,000	
87 HHS Training Grant	(7,493)			18,079	
88 Genetic Disease Testing	15,357			279,540	
89 VAVRS Driver Training Program		(304)			
90 VAVRS Problem Solving Workshop		(584)			1,189
91 Community Food and Nutrition Program		20,122			
92 Kepone Environmental Endowment		(10,000)			25,000
93 South Fork Survey Project		3,860			454
94 Appalachia - Administration	785,488		76,000		
95 Appalachia - P. H. Social Services	16,358			(500)	
96 Appalachia - Ped. Hlth. and Child Dev.	(68,665)			43,425	
97 Appalachia - P. H. Nutrition	19,288			8,188	
98 MAST - Trouser Unit Program					18,300
99 Preventive and Emergency Child Care				175,000	
100 Shellfish Depuration					10,000
101 Lenowisco HHS Project				25,996	
102 Peninsula EMS Contract					54,510
103 Thomas Jefferson HHS Project				21,514	
104 Health Education Risk Reduction				18,492	
105 Crippled Children Service Fund					3,288
106 Hypertension Contract				10,000	
107 Hospital Highway Sign					
108 Kepone Medical Studies					
109 Kepone Program					
110 VAVRS Extrication Program					
111 Paramedic Exam					
TOTAL	2,579,749	31,518	76,000	2,224,078	348,473
CAPITAL OUTLAY					
112 Replace Roof/Lab - Abingdon					
113 SURPLUS PROPERTY		35,116			18,701
GRAND TOTAL - DEPARTMENT OF HEALTH	9,312,939	9,170,875	199,113,525	245,329,030	37,602,668

[1]Balances shown in Federal Funds in error on Trial Balance. These are Special Fund Accounts and balances will be transferred and corrected by registry entry.
[2]Accounts Receivable

TABLE 55
STATEMENTS OF BALANCES, APPROPRIATIONS, RECEIPTS, AND DISBURSEMENTS
FOR THE YEAR ENDING JUNE 30, 1980 (continued)

Transfers to Other Funds	Transfers from Other Funds	Total Funds Available	Expenditures 1979-80	Balance June 30, 1980			
				State	Federal	Special	
	32						81
879	879	(384)	(384)				82
		7,095	6,617		3,809[1]	(3,331)	83
		20,941	20,913			28	84
		262,243	281,953		(19,710)[2]		85
1		25,323	25,323				86
	11	10,597	10,597				87
		294,897	269,132		25,765		88
		(304)	657			(961)[2]	89
		605	1,738			(1,133)[2]	90
		20,122	1,212			18,910	91
		15,000	30,000			(15,000)[2]	92
		4,314	2,749			1,565	93
97,333		764,155	33,493	67,642	663,020		94
		15,858			15,858		95
	97,333	72,093	72,093				96
		27,476	16,141		11,335		97
		18,300	40,418			(22,118)[2]	98
		175,000	116,730		58,270		99
		10,000	5,877			4,123	100
		25,996	22,519		3,477		101
		54,510	38,063			16,447	102
		21,514	24,310		(2,796)		103
		18,492	12,293		6,199		104
		3,288				3,288	105
		10,000	2,009		7,991		106
			949			(949)[2]	107
	251,027	251,027	80,822			170,205	108
	709,455	709,455	100,747			608,708	109
			2,381			(2,381)[2]	110
			802			(802)[2]	111
996,012	1,956,494	6,220,300	2,882,069	67,642	2,452,214	818,375	
	19,831	19,831	19,278	553			112
		53,817				53,817	113
3,398,704	27,009,293	524,139,626	498,320,114	1,964,015	14,447,891	9,407,606	

TABLE 56
EXPENDITURES WITH STATE AND LOCAL SHARE AND REVENUE BY LOCAL HEALTH DISTRICT, VIRGINIA, FISCAL YEAR 1980

Health District	EXPENDITURES			Revenue
	Total	State Share	Local Share	
TOTAL	58,484,422	33,113,610	25,370,812	10,541,135
Alexandria	2,693,601	1,415,214	1,278,387	558,746
Alleghany, Botetourt, Craig, Roanoke County, Clifton Forge, Covington, Salem	1,463,168	917,570	545,598	310,305
Arlington	2,149,606	1,080,049	1,069,557	316,054
Central Shenandoah (Augusta, Bath, Highland, Rockbridge, Rockingham, Buena Vista, Harrisonburg, Lexington, Staunton, Waynesboro)	1,934,633	1,242,856	691,777	274,771
Central Virginia (Amherst, Appomattox, Bedford Co., Campbell, Lynchburg, Bedford City)	1,665,890	957,066	708,824	308,213
Charles City County, Goochland, Hanover, New Kent	778,270	479,815	298,455	108,596
Chesapeake	982,972	540,635	442,337	212,825
Chesterfield, Powhatan, Colonial Heights	1,151,093	608,356	542,737	118,349
Crater (Dinwiddie, Greensville, Prince George, Surry, Sussex, Emporia, Hopewell, Petersburg)	1,761,233	1,072,339	688,894	508,068
Cumberland Plateau (Buchanan, Dickenson, Russell, Tazewell)	1,039,921	575,356	464,565	177,068
Eastern Shore (Accomack, Northampton)	760,586	489,868	270,718	241,273
Fairfax County, Fairfax City, Falls Church	6,639,391	3,120,573	3,518,818	492,196
Hampton	1,155,887	635,738	520,149	306,880
Henrico	980,116	539,064	441,052	104,958
Lenowisco (Lee, Scott, Wise, Norton)	915,322	608,682	306,640	195,597
Lord Fairfax (Clarke, Frederick, Page, Shenandoah, Warren, Winchester)	1,113,934	668,360	445,574	172,316
Loudoun	688,505	371,582	316,923	170,174
Middle Peninsula (Essex, Gloucester, King and Queen, King William, Mathews, Middlesex)	642,249	450,223	192,026	155,009
Mount Rogers (Bland, Carroll, Grayson, Smyth, Washington, Wythe, Bristol, Galax)	1,801,833	1,199,005	602,828	454,470
New River (Floyd, Giles, Montgomery, Pulaski, Radford)	922,097	571,673	350,424	117,040
Norfolk	4,157,529	2,286,641	1,870,888	378,272
Northern Neck (Lancaster, Northumberland, Richmond, Westmoreland)	625,026	445,383	179,643	114,746
Peninsula (James City County, York, Newport News, Poquoson, Williamsburg)	3,693,241	2,076,199	1,617,042	1,123,105
Piedmont (Amelia, Buckingham, Charlotte, Cumberland, Lunenburg, Nottoway, Prince Edward)	882,859	649,128	233,731	193,678
Pittsylvania, Danville	953,157	524,236	428,921	125,543
Prince William, Manassas, Manassas Park	1,399,501	700,288	699,213	128,407
Rappahannock Area (Caroline, King George Spotsylvania, Stafford, Fredericksburg)	898,006	548,932	349,074	161,833
Rappahannock-Rapidan (Culpeper, Fauquier, Madison, Orange, Rappahannock)	1,103,055	624,977	478,078	181,199
Richmond City	4,374,649	2,406,057	1,968,592	785,524
Roanoke City	1,576,034	866,819	709,215	312,993
Southside (Brunswick, Halifax, Mecklenburg, South Boston)	685,599	443,614	241,985	125,195
Thomas Jefferson (Albemarle, Fluvanna, Greene, Louisa, Nelson, Charlottesville)	1,610,518	949,116	661,402	280,434
Tidewater (Isle of Wight, Southampton, Franklin City, Portsmouth, Suffolk)	3,109,495	1,794,219	1,315,276	979,029
Virginia Beach	1,377,961	757,878	620,083	221,351
West Piedmont (Franklin County, Henry, Patrick, Martinsville)	797,485	496,099	301,386	126,918

TABLE 57

EXPENDITURES, REVENUE, STATE AND LOCAL FUNDS BY LOCAL HEALTH DISTRICT, VIRGINIA, FISCAL YEAR 1980

Health District	Expenditures	Revenue	Expenditures Less Revenue			
			Total	State Share	Local Share	100% Local Funds
TOTAL	58,484,422	10,541,135	47,943,287	26,660,672	19,143,662	2,138,953
Alexandria	2,693,601	558,746	2,134,855	1,107,904	906,466	120,485
Alleghany, Botetourt, Craig, Roanoke County, Clifton Forge, Covington, Salem	1,463,168	310,305	1,152,863	724,957	393,304	34,602
Arlington	2,149,606	316,054	1,833,552	695,955	569,417	568,180
Central Shenandoah (Augusta, Bath, Highland, Rockbridge, Rockingham, Buena Vista, Harrisonburg, Lexington, Staunton, Waynesboro)	1,934,633	274,771	1,659,862	1,066,627	593,235	
Central Virginia (Amherst, Appomattox, Bedford Co., Campbell, Lynchburg, Bedford City)	1,665,890	308,213	1,357,677	780,936	576,741	
Charles City County, Goochland, Hanover, New Kent	778,270	108,596	669,674	410,778	258,896	
Chesapeake	982,972	212,825	770,147	423,581	346,566	
Chesterfield, Powhatan, Colonial Heights	1,151,093	118,349	1,032,744	512,244	419,108	101,392
Crater (Dinwiddie, Greensville, Prince George, Surry, Sussex, Emporia, Hopewell, Petersburg)	1,761,233	508,068	1,253,165	761,170	491,995	
Cumberland Plateau (Buchanan, Dickenson, Russell, Tazewell)	1,039,921	177,068	862,853	474,821	329,551	58,481
Eastern Shore (Accomack, Northampton)	760,586	241,273	519,313	339,319	179,994	
Fairfax County, Fairfax City, Falls Church	6,639,391	492,196	6,147,195	2,842,138	2,325,386	979,671
Hampton	1,155,887	306,880	849,007	466,954	382,053	
Henrico	980,116	104,958	875,158	481,337	393,821	
Lenowisco (Lee, Scott, Wise, Norton)	915,322	195,597	719,725	477,507	232,330	9,888
Lord Fairfax (Clarke, Frederick, Page, Shanandoah, Warren, Winchester)	1,113,934	172,316	941,618	564,500	377,118	
Loudoun	688,505	170,174	518,331	277,987	227,443	12,901
Middle Peninsula (Essex, Gloucester, King and Queen, King William, Mathews, Middlesex)	642,249	155,009	487,240	341,117	146,123	
Mount Rogers (Bland, Carroll, Grayson, Smyth, Washington, Wythe, Bristol, Galax)	1,801,833	454,470	1,347,363	899,365	447,998	
New River (Floyd, Giles, Montgomery, Pulaski, Radford)	922,097	117,040	805,057	502,275	302,782	
Norfolk	4,157,529	378,272	3,779,257	2,078,591	1,700,666	
Northern Neck (Lancaster, Northumberland, Richmond, Westmoreland)	625,026	114,746	510,280	363,396	146,884	
Peninsula (James City County, York, Newport News, Poquoson, Williamsburg)	3,693,241	1,123,105	2,570,136	1,444,930	1,125,206	
Piedmont (Amelia, Buckingham, Charlotte, Cumberland, Lunenburg, Nottoway, Prince Edward)	882,859	193,678	689,181	507,582	181,599	
Pittsylvania, Danville	953,157	125,543	827,614	455,188	372,426	
Prince William, Manassas, Manassas Park	1,399,501	128,407	1,271,094	626,334	462,375	182,385
Rappahannock Area (Caroline, King George, Spotsylvania, Stafford, Fredericksburg)	898,006	161,833	736,173	449,014	287,159	
Rappahannock-Rapidan (Culpeper, Fauquier, Madison, Orange, Rappahannock)	1,103,055	181,199	921,856	478,710	372,178	70,968
Richmond City	4,374,649	785,524	3,589,125	1,973,660	1,615,465	
Roanoke City	1,576,034	312,993	1,263,041	694,673	568,368	
Southside (Brunswick, Halifax, Mecklenburg, South Boston)	685,599	125,195	560,404	362,750	197,654	
Thomas Jefferson (Albemarle, Fluvanna, Greene, Louisa, Nelson, Charlottesville)	1,610,518	280,434	1,330,084	782,608	547,476	
Tidewater (Isle of Wight, Southampton, Franklin City, Portsmouth, Suffolk)	3,109,495	979,029	2,130,466	1,237,865	892,601	
Virginia Beach	1,377,961	221,351	1,156,610	636,136	520,474	
West Piedmont (Franklin County, Henry, Patrick, Martinsville)	797,485	126,918	670,567	417,763	252,804	

HEALTH PLANNING AND RESOURCES DEVELOPMENT

Effective July 1, 1976, the Virginia State Department of Health was designated by the Governor as the State Health Planning and Development Agency (SHPDA) under PL 93-641, the National Health Planning and Resources Development Act of 1974. Accordingly, the Office of Health Planning and Resources Development, within the Department, was assigned the responsibilities under this Act. Subsequent passage of State health planning legislation (Code of Virginia, Title 32, Chapter 4, Article 4) established the Statewide Health Coordinating Council (SHCC), designated the State Health Department as the SHPDA, and prescribed their respective powers and duties under State law. Both State and Federal health planning legislation promote the improvement of planning and coordination of health care services and place greater emphasis on the rational allocation of health care resources.

The Office is organized into three Divisions - Health Planning, Resources Development, and Vital Records and Health Statistics. The broad scope of the Office's responsibilities include: the development and revision of the Virginia State Health Plan and the State Medical Facilities Plan; the administration of the Virginia Certificate of Public Need program; and official custodian of the records of birth, death, fetal death, marriage, and divorce for events occurring in the Commonwealth.

HEALTH PLANNING

The primary responsibility of the Division of Health Planning is the development and revision of the Virginia State Health Plan, subject to the approval of the Statewide Health Coordinating Council (SHCC). Under PL 93-641, a Health Systems Agency has been designated in each of six geographical regions of the Commonwealth (Northwestern Virginia Health Systems Agency, HSA I; Northern Virginia Health Systems Agency, HSA II; Southwest Virginia Health Systems Agency, HSA III; Central Virginia Health Systems Agency, HSA IV; Eastern Virginia Health Systems Agency, HSA V; and, Appalachian Regional Council for Health Advancement Health Systems Agency, HSA VI, serving the counties of Washington and Scott and the city of Bristol, Virginia). Each agency, which is governed by a body of citizens who reside in the region, has responsibility and authority under Federal health planning legislation to determine the needs for health care services in its region and to develop a plan to meet these needs over a five-year period.

As required by State and Federal health planning legislation, the State Health Plan is based on the findings and conclusions presented in regional Health Systems Plans as well as on other State Plans and policy documents. The Plan represents a statement by both the State Health Department and the SHCC of those policies and actions necessary to improve the health care system in Virginia, examines selected health care service areas, projects the need for health services and resources during the next five years, and delineates strategies for meeting these needs.

The Statewide Health Coordinating Council approved the first Virginia State Health Plan (1979-83) on April 18, 1979. This approval marked the completion of an intensive two-year planning effort and set in motion a coordinated approach to the development of a comprehensive health policy for the Commonwealth. Following a comprehensive review and revision process, the second edition draft State Health Plan (1980-84) was approved by the Council in April, 1980. Following a

public review and comment period, the final approval of the Plan by the SHCC took place July 30, 1980, followed by the Governor's approval on August 18, 1980.

The active participation of public and private agencies and organizations whose planning and program activities impact on Virginia's health care system has been a major feature in the development of goals, objectives, and recommended actions articulated in the State Health Plan. Activities, especially among Federally-aided State-operated programs, will be coordinated to promote the elimination of duplicate services and to develop goals and long-term actions consistent with the following priorities identified in the Plan: promoting appropriate allocation of available health care dollars as well as controlling the increase in institutional health care costs and expenditures; ensuring quality and cost-effective nursing home services and providing alternative levels of long-term care, e.g., home health care, homes for adult care, and geriatric day care; assuring the availability, accessibility, and continuity of comprehensive health services provided for children, including immunizations against preventable childhood diseases; ensuring the availability and accessibility of comprehensive family planning services to the high risk population groups in most need of such services; providing general and preventive dental services in areas which are currently underserved; organizing a system of care for perinatal (maternal and newborn) services which promotes quality care, optimal utilization of perinatal personnel and facilities, and the assurance of reasonable cost effectiveness; increasing emphasis on the screening, detection, and control of hypertension and venereal disease, developing a more accurate information and data base necessary for effective health planning in such areas as primary medical care, surgery, emergency medical services, and mental health, mental retardation, and substance abuse; developing adequate community and school health education resources to promote wellness, maintain good health, and support services aimed at preventing disease, disability and premature death.

The principal focus for the first two years' actions necessary for the accomplishment of the priority goals and objectives of the State Health Plan are reflected in the two State Annual Implementation Plans (SAIP) for fiscal years 1979-1980 and 1980-1981, both of which were developed by the Division and approved by the SHCC.

In addition to the development of the Plan and Implementation Plans, the Division of Health Planning also provides staff assistance to the SHCC in the performance of its other responsibilities under health planning legislation (e.g., the review of Health Systems Plans and Annual Implementation Plans). The Division also promotes the development of public health plans to carry out designated program activity and to insure that all such plans are consistent with the goals and objectives of the State Health Plan and Health Systems Plans. In addition, technical planning assistance to the organizational units within the State Health Department is provided by the Division of Health Planning in such areas as grantsmanship, management-by-objectives, and organizational analysis.

RESOURCES DEVELOPMENT

The primary responsibilities of the Division of Resources Development are the administration of the Virginia Certificate of Public Need Program including the review/analysis of COPN requests, and assistance to the SHCC and State Health Commissioner in their consideration of COPN requests; the development of the State Medical Facilities Plan which contains an inventory of existing and projections of need for additional medical facilities and services; the coordination and preparation of necessary materials to support the State-level appropriateness

review function including staff assistance to the State Health Commissioner in his periodic review of all existing institutional and home health services in the Commonwealth; the administration of the Federal Hill-Burton Medical Facility Program; coordination of the Proposed Uses of Federal Funds and A-95 reviews for health and health related projects for Federal funding including staff assistance to the SHCC in its review of certain requests for Federal funding; participation in special studies and other projects called for in laws enacted by the Virginia General Assembly such as the Hospital Bed Reduction Plan as called for in the H.B. 1450 and the Hospice Evaluative Study.

During fiscal year 1980, the Division of Resources Development completed or assisted in the preparation of several projects/activities. The 1979 State Medical Facilities Plan was adopted by the Virginia State Board of Health and became effective on February 26, 1980. The Virginia Medical Care Facilities Certificate of Public Need Rules and Regulations were adopted by the Virginia State Board of Health and became effective on April 11, 1980. The CT Scanner Criteria and Standards were adopted by the State Board of Health on June 27, 1980, as an amendment to the 1979 State Medical Facilities Plan. These criteria and standards are used to review Certificate of Public Need for CT Scanners.

Bureau staff also prepared the Work Program and Procedures Manual for the Appropriateness Review function including the development of draft data collection forms for those institutional services to be considered during the first year of appropriateness reviews. These services include open heart surgery, cardiac catheterization, end-stage renal disease and therapeutic radiology services.

Bureau staff assisted the SHCC in its review of the continuation grant applications of the six Virginia Health Systems Agencies - one of these health systems agencies is an interstate (Tennessee and Virginia) HSA called ARCHA. They also assisted the SHCC in reviewing the Virginia State Substance Abuse Plan and Progress Report and Update to the five year Comprehensive Mental Health Plan.

The review of approximately 200 health and health related projects for initial and/or continuation funding under the A-95 process was coordinated by the Bureau. In addition, staff reviewed/analyzed and prepared recommendations in approximately 140 Certificate of Public Need requests. These requests involved new construction, renovations and/or replacements for nursing homes and hospital projects; purchases of medical care facilities; equipment replacement and additions in medical care facilities; bed conversions/additions through construction and/or minor renovations in medical care facilities. The total capital expenditure involved in these projects was approximately $108,000,000. The State Health Commissioner approved 96 percent of those requests filed during the fiscal year 1980 time period. Staff also supported the Hospice Advisory Committee in its development of the Hospice Evaluative Study as called for in House Joint Resolution 252.

VITAL RECORDS AND HEALTH STATISTICS

In order to perform the duties required by Virginia statutes, the Division of Vital Records and Health Statistics is divided into two Bureaus: Vital Records, which is responsible for obtaining, storing and issuing copies of Virginia's vital records, and Health Statistics, which provides health information and statistical data on request.

Vital Records

For more than half a century, the Registration Services section of the Bureau has served as official custodian of the records of birth, death, fetal death, marriage, and divorce of Virginia's citizens. Each year over 200,000 vital records are added to the nearly nine million such documents stored in the Bureau's vaults. Birth certificates are prepared by the hospital or attendant at birth; death certificates and fetal death reports are prepared by the funeral director or hospital, with the cause of death certified by the attending physician or medical examiner. These three records (birth, death, and fetal death) are filed with the health department in the city or county in which the event occurred and are forwarded twice each month to the State office. Records of marriage, divorce, court orders of adoption, legal change of name, etc., are received from the clerks of court throughout the State.

Vital records are issued to the public upon request of the registrant, member of his family, or legal representative. Fees obtained from these copies are deposited in the State Treasury.

During 1979, the Bureau issued 210,022 certified copies of vital records, representing a 4.2 percent decrease in this service over 1978. Of the certified copies issued, 91.7 percent were birth record copies which included 31,242 birth cards. The total birth record copies issued represents a decrease of 4.2 percent over the number issued in 1978. In 1979, fees received for certified copies and other record services totaled $714,441, an increase of approximately $196,859, or 38.0 percent, over 1978.

A total of 49,970 free verifications to official agencies were made in 1979, 14.5 percent fewer than the number recorded in 1978. Of the total free verifications in 1979, 90.1 percent involved birth records. Also, some 50,000 free verifications of information from the records are provided yearly to Federal, State, or local agencies representing the interest of the individual.

CERTAIN ACTIVITIES OF THE BUREAU OF VITAL RECORDS AND HEALTH STATISTICS, 1978 AND 1979

Activities	1978	1979
Certified Copies Issued	219,137	210,022
Births	167,129	161,245
Birth cards	33,822	31,242
Deaths	13,281	12,424
Marriages	4,228	4,516
Divorces	664	585
Fetal deaths	13	10
Free Verifications Issued	58,422	49,970
Births	53,554	45,008
Deaths	1,542	1,909
Marriages	2,537	2,178
Divorces	789	875
Money Received	$517,582	$714,441
Mail Handled (Pieces)	544,066	563,580
Daily Average (250 Working Days)		
Certified copies	881	840
Free verifications	234	200
Mail handled (pieces)	2,176	2,254

For those Virginians without a birth record, assistance is provided by establishing a delayed certificate of birth upon presentation of satisfactory evidence to prove date and place of birth and parentage.

In cases of adoption, or legitimation, a new birth certificate is usually prepared reflecting the facts as shown in the adoption decree or affidavit of paternity. By this procedure, the individual is assured of having a birth record that appears no different from that of any other person.

Health Statistics

On January 31, 1975, the State Department of Health established the Virginia Center for Health Statistics within the Division of Vital Records and Health Statistics. The Center has general responsibilities for data program development, data systems operations, data analysis and consultation, and the statistics from the vital records system. A Producer-User Advisory Council has been appointed to provide a forum in which users can enumerate needs, the producers can respond, and the Center can be advised on data requirements regarding feasibility, costs, impact on health care, and such matters.

The Center for Health Statistics provides health information and statistical data for the Department's divisions and bureaus, local health departments, and other public and private health-related agencies. Interpretations are made for popular use, such as the news media, or for use in scientific research.

Vital statistics and other health program information are abstracted through the establishment of data collection systems which provide factual, up-to-date statistics regarding the various aspects of the health of the people of Virginia. Health manpower and health facilities data are gathered in cooperation with Virginia licensing agencies. Data gathered relate the health characteristics of the people to the availability and use of health manpower and facilities and to health services provided. Health data are also related to demographic characteristics of the population served and to the population eligible for the service, using available U.S. census data and State population estimates.

After editing and coding, where necessary, data are tabulated by computerized or manual means depending upon difficulty and volume of items. Compilations are analyzed and interpreted according to modern statistical methods. Data presentations are made through the use of tables, graphs, charts, narratives, and other interpretive methods to show health conditions and their relations to past trends and future projections.

Vital statistics information for Virginia and for the cities and counties has been recorded in the Bureau annually since 1912 and is available to individuals and agencies upon request. Statistical summaries of all Health Department bureaus and divisions are published annually in the "Statistical Annual Report of the Virginia State Department of Health." Selected nonpublished data are also available.

Information pertaining to Virginia's hospitals and nursing homes has been collected through a common system since 1975 and is available upon request for the years 1975 through 1978. Facility inventory statistics have been expanded to include homes for adults and mental health and mental retardation facilities. Data are available for 1977 and 1978.

A system for collecting health manpower information was initiated in 1976. Data are available on request and include aggregate information on the following occupations: dental hygienists, dentists, licensed practical nurses, nursing home administrators, optometrists, pharmacists, physicians, registered nurses, and veterinarians.

When essential or desired special purpose health information does not fall within the scope of the regular data collection systems, Center personnel, in consultation with the bureau or division directors, conduct or participate in special statistical studies, sample surveys, and like activities.

MEDICAL EXAMINER SYSTEM

The Medical Examiner Division provides medical services and interpretation which are integral to an adequate investigation of human death cases. The Division is charged with the investigation of all deaths due to trauma, injury, violence, or poisoning; accident, suicide, or homicide; or suddenly when in apparent health; or when unattended by a physician; or in jail, prison, other correctional institution or in police custody; or in any suspicious, unusual or unnatural manner.

The Medical Examiner Division is composed of approximately 400 licensed physicians who serve as local medical examiners in the counties and cities. The Division recruits, appoints, and supervises the activities of these physicians across the Commonwealth. Through its four District offices in Richmond, Norfolk, Roanoke, and Fairfax, the Division provides forensic pathology services (postmortem examinations) to these county and city medical examiners on all cases which require detailed medico-legal autopsy. The five forensic pathologists in the Division perform the medico-legal autopsies, formulate diagnoses and opinions, and appear in legal proceedings concerning their cases. The Division administrative personnel handle the records and administrative matters, and issue legal documents to parties in interest to each case. Close interaction exists with law enforcement agencies, insurers, survivors, physicians, hospitals, funeral directors, rescue squads, health department personnel, press personnel, lawyers, and courts.

MEDICAL EXAMINER ACTIVITIES BY DISTRICT
VIRGINIA, 1979

	Virginia	Central Richmond	Tidewater Norfolk	Western Roanoke	Northern Fairfax
Medical Examiner Cases	7,699	2,418	1,699	2,153	1,429
Natural	4,180	1,291	994	1,050	845
Violent	3,507	1,120	704	1,101	582
Accident	2,260	737	421	731	371
Suicide	740	214	135	236	155
Homicide	507	169	148	134	56
Undetermined	12	7	1	2	2
Autopsies Authorized	2,678	825	491	496	866
Toxicology	6,503	2,811	1,030	1,225	1,437
*Cremations	1,299	260	348	137	554

*(Certificates issued on non-medical examiner deaths)

There were 40,170 deaths from all causes in Virginia in calendar year 1979 out of a total population of 5,259,424. Of these deaths, 7,699 (excluding cremations), or 19.2 percent, were investigated by the Medical Examiner. Official autopsies were authorized as part of the investigation in 2,678 or 34.8 percent, of these cases. The manner of death was determined to be accidental for 2,260 or 29.4 percent. The kinds of fatal accidents most frequently investigated in 1979 involved motor vehicles.

MEANS OF ACCIDENTAL DEATHS INVESTIGATED
BY THE MEDICAL EXAMINER, VIRGINIA, 1979

Means	Number	Percent
TOTAL	2,260	100.0
Motor Vehicles	1,061	47.0
Falls	367	16.2
Drownings	166	7.4
Poisonings (except fires/carbon monoxide)	154	6.8
Alcohol	89	3.9
Narcotics/abused drugs	16	0.7
Carbon monoxide (exhaust)	14	0.6
Other poisoning	35	1.6
Fires (burns & carbon monoxide)	152	6.7
Other means	360	15.9

In 1979, there were 740 suicides which accounted for 9.6 percent of all deaths investigated. This was 46.0 percent more than the number of homicides. More then two-thirds of the suicides (67.9 percent) were caused by self-inflicted gunshot wounds. Other common methods used were poisoning and hanging.

MEANS OF SUICIDE DEATHS INVESTIGATED
BY THE MEDICAL EXAMINER, VIRGINIA, 1979

Means	Number	Percent
TOTAL	740	100.0
Firearms	502	67.9
Poisonings	116	15.7
Carbon monoxide	36	4.9
Narcotics/abused drugs	23	3.1
Barbiturates	11	1.5
Other	46	6.2
Hangings	64	8.6
Drownings	15	2.0
Plastic bag	10	1.3
Other means	33	4.5

In regard to the various characteristics of those taking their own lives, the largest numbers were in the age group 20-24 years (108), white male (474), married (301), and not working, student or retired (211). There were 44 teenage suicides with 2 of these under 15 years of age.

Medical Examiner investigations revealed 507 homicides in 1979. In 73.8 percent of the homicides, firearms was the fatal agency.

In 1979, 75.9 percent of the homicide victims were male (385) and of these, the majority were nonwhite males (199).

MEANS OF HOMICIDE DEATHS INVESTIGATED
BY THE MEDICAL EXAMINER, VIRGINIA, 1979

Means	Number	Percent
TOTAL	507	100.0
Firearms	374	73.8
Cutting instruments/stabbing	59	11.6
Beating/blows/blunt instruments	33	6.5
Strangulation	11	2.2
Other means	30	5.9

The number of deaths involving guns or firearms was 923 in 1979. A comparison of deaths due to firearms for the past eight years is shown in the next table. For each year, suicides accounted for the largest number of firearm deaths.

FIREARM DEATHS INVESTIGATED BY THE MEDICAL EXAMINER
VIRGINIA, 1972-1979

Manner of Death	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	870	947	995	996	973	955	882	923
Accident	65	73	73	78	45	52	42	47
Suicide	429	466	483	495	542	553	496	502
Homicide	376	408	439	423	386	350	344	374

Tests for alcohol determination were performed on 2,115, or 27.5 percent, of the Medical Examiner cases. Examinations for the presence of alcohol was performed on 902 accident victims, 296 suicides and 279 homicides. Circumstances required that 634 of those who died from natural causes be tested for the presence of alcohol. Positive findings were indicated on 1,520 (71.9 percent) of the victims tested. Alcohol was found to be a factor in at least 19.7 percent of all deaths within the jurisdiction of the medical examiner.

Of these decedents tested for alcohol 69.8 percent (1,477 deaths) were attributed to external means. Of these, 1,153 (78.1 percent) were positive, and 845 (57.2 percent) were found to have had an alcohol level of 0.10 percent or higher. Included in the deaths for 1979 were 94 persons whose deaths were attributed to the consumption of alcohol.

Alcohol tests were performed on 434 of the 923 decedents whose deaths were due to firearms. A total of 326 were positive for alcohol. This figures to be 75.1 percent of those tested and 35.3 percent of total firearm deaths.

There were 551 fatalities designated as drivers of motor vehicles including motorcycles. Alcohol tests were performed on 318 (57.7 percent), 257 of whom registered positive levels. This represents 46.6 percent of total driver crash victims.

BLOOD ALCOHOL LEVELS IN FIREARM DEATHS INVESTIGATED BY THE MEDICAL EXAMINER
VIRGINIA, 1979

Blood Alcohol Level	Total	Accident	Suicide	Homicide
TOTAL DEATHS	923	47	502	374
TOTAL TESTS	434	13	203	218
Blood Alcohol Level:				
Negative	108	6	53	49
Positive (Less than 0.10%)	94	2	42	50
0.10%-0.14%	53	1	28	24
0.15%-0.19%	55	1	28	26
0.20%-0.24%	54	1	20	33
0.25%-0.29%	34	1	18	15
0.30%-0.34%	19	1	7	11
0.35%-0.39%	10		3	7
0.40% or more	7		4	3

BLOOD ALCOHOL LEVELS IN MOTOR VEHICLE FATALITIES
INVESTIGATED BY THE MEDICAL EXAMINER
VIRGINIA, 1979

Means	Number Deaths	Total Tested	Blood Alcohol Percent								
			Neg.	Pos. <.10	.10 .14	.15 .19	.20 .24	.25 .29	.30 .34	.35 .39	.40+
TOTAL	1,065	531	112	81	73	109	77	45	24	6	4
ACCIDENT											
Motorcycle	54	23	6	6	2	5	3	1			
M.V. Driver	496	295	55	36	41	69	53	26	10	3	2
M.V. Pass.	257	111	26	30	21	15	9	4	4		2
M.V. Ped.	174	64	15	5	6	10	9	10	6	3	
M.V. N.S.	80	35	10	4	2	9	2	4	4		
SUICIDE											
M.V. Driver	1										
M.V. Pass.	1	1			1						
M.V. Ped.	2	2				1	1				

An autopsy may be authorized by the Medical Examiner or by the Chief Medical Examiner if in his opinion such autopsy is advisable and in the public interest, or an autopsy may be requested by the Attorney for the Commonwealth or by the judge of the circuit court. The total number of autopsies performed on medical examiner cases in 1979 was 2,678 which gives an autopsy rate of 34.8 percent.

NUMBER AND PERCENT OF MEDICAL EXAMINER CASES WITH AUTOPSY INDICATED BY AUTHORIZATION AND MANNER OF DEATH, VIRGINIA, 1979

Authorization	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
MEDICAL EXAMINER CASES	7,699	2,260	740	507	4,180	12
Autopsies: Total	2,678	840	369	503	955	11
Percent	34.8	37.2	49.9	99.2	22.8	91.7
Autopsy Authorized by:						
Medical Examiner	2,539	761	363	497	907	11
Chief Medical Examiner	24	11	3	4	6	
Commonwealth Attorney	2				2	
Family	103	61	3	1	38	
Other	10	7		1	2	

TABLE 58
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY AGE GROUP
VIRGINIA, 1979

Age Group	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,699	2,260	740	507	4,180	12
Under 1	190	18		6	164	2
1-4	72	49		8	15	
5-9	52	40		5	7	
10-14	87	74	2	3	8	
15-19	333	233	42	35	23	
20-24	502	299	108	73	22	
25-29	370	175	71	70	54	
30-34	323	141	58	62	61	1
35-39	310	104	59	56	90	1
40-44	354	103	70	34	147	
45-49	472	130	53	31	258	
50-54	585	117	52	23	391	2
55-59	716	119	58	33	506	
60-64	740	123	42	21	553	1
65-69	706	101	41	13	550	1
70-74	556	88	27	10	431	
75 and over	1,244	324	47	18	855	
Not stated	87	22	10	6	45	4

TABLE 59
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY SEX AND RACE
VIRGINIA, 1979

Sex/Race	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,699	2,260	740	507	4,180	12
White male	3,685	1,185	474	186	1,839	1
White female	1,620	505	164	63	885	3
Nonwhite male	1,642	425	83	199	930	5
Nonwhite female	690	128	17	59	484	2
Not stated	62	17	2		42	1

TABLE 60
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY MARITAL STATUS
VIRGINIA, 1979

Marital Status	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,699	2,260	740	507	4,180	12
Single	1,527	642	150	141	591	3
Married	2,529	600	301	155	1,472	1
Widowed	962	200	45	21	693	3
Divorced	299	85	40	24	150	
Not stated	2,382	733	204	166	1,274	5

TABLE 61
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY OCCUPATION
VIRGINIA, 1979

Occupation	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,699	2,260	740	507	4,180	12
Professional, technical and kindred workers	180	50	28	10	92	
Farmers, laborers and farm managers	112	31	8	6	67	
Managers, officials and proprietors, excluding farm managers	134	43	14	9	68	
Clerical and kindred workers	119	30	23	12	53	1
Sales workers	59	12	11	3	33	
Craftsmen, foremen and kindred workers	317	114	50	26	127	
Operatives and kindred workers	314	161	30	34	89	
Private household workers	43	6	2	3	32	
Service workers, including arred forces	203	67	28	14	93	1
Laborers, excluding farm workers	431	156	38	58	178	1
Not working force (infant or preschool, student, housewife, retired, etc.)	3,398	857	211	101	2,224	5
Unemployed						
Not stated	2,389	733	297	231	1,124	4

TABLE 62
MEDICAL EXAMINER ACTIVITIES
MANNER OF DEATH BY TYPE OF DEATH
VIRGINIA, 1979

Type of Death	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	7,699	2,260	740	507	4,180	12
In prison	19	1			18	
Suspicious	117	1		1	111	4
Unusual-(operating room)	8		1		7	
Unusual-(other)	194			1	189	4
Sudden in apparent health:						
Instantaneous without obvious cause	1,029				1,027	2
After unexplained coma						
After unexplained rapidly failing illness						
Unattended by a physician:						
Found dead without obvious cause						
Unattended during fatal illness	2,829				2,827	2
Stillbirth attended by midwife						
Violent or unnatural	3,503	2,258	739	505	1	

TABLE 63 - MEDICAL EXAMINER ACTIVITIES
EXTERNAL MANNER OF DEATH BY MEANS AND NUMBER AUTOPSIED
VIRGINIA, 1979

Means of Death	Manner of Death							
	Total Deaths				Number Deaths Autopsied			
	Total	Accident	Suicide	Homicide	Total	Accident	Suicide	Homicide
STATE OF VIRGINIA	3,507	2,260	740	507	1,712	840	369	503
Abused/battered child	9			9	9			9
Animals	1	1						
Asphyxia:								
Aspiration/cafe coronary	31	31			12	12		
Aspiration/vomitus	2	2						
Aspiration/foreign object	2	2			1	1		
Aspiration/other or not stated	3	3			2	2		
Plastic bag	10		10		3		3	
Strangulation	16	3	2	11	14	2	1	11
Suffocation/smothering	17	14	2	1	9	7	1	1
Beating/blows/blunt instrument	33			33	33			33
Burns/fire	46	43	2	1	14	12	1	1
Cave-in	2	2			1	1		
Cutting instrument/stab	65		6	59	61		3	58
Drowning	184	166	15	3	98	87	8	3
Electricity	27	27			13	13		
Explosion	6	6			3	3		
Exposure: heat	2	1		1	1			1
cold	25	24		1	16	15		1
Falling object	46	46			14	14		
Fall	368	367		1	92	91		1
Gun	923	47	502	374	627	28	228	371
Hanging	72	7	64	1	39	5	33	1
Jump	10	1	9		7	1	6	
Insect/bee stings	2	2						
Lightning	1	1			1	1		
Machinery	21	21			6	6		
Natural disaster	3	3			1	1		
Poisoning:								
Alcohol-ethanol	75	74	1		43	43		
Other alcohols	8	6	2		4	2	2	
Not stated	11	9	2		5	3	2	
Barbiturates	15	4	11		12	2	10	
Carbon monoxide:								
Motor vehicle exhaust	47	14	32	1	26	8	17	1
Fire/smoke inhalation	115	109	2	4	64	59	1	4
Other combustible engine exhaust	6	4	2		3	3		
Narcotics/abused drugs	39	16	23		35	15	20	
Other poisonings	69	27	41	1	51	21	29	1
Starvation/inanition	1			1	1			1
Tractor	22	22			2	2		
Train	17	14	3		4	4		
Vehicular;								
Aircraft	23	23			23	23		
Bicycle	2	2						
Boat (included in drownings)								
Mo-ped/go-cart	2	2			1	1		
Motorcycle	54	54			13	13		
Auto/truck:								
Driver	497	496	1		157	157		
Passenger	258	257	1		62	62		
Pedestrian	176	174	2		73	71	2	
Unknow	80	80			19	19		
Other traumatic causes	52	45	5	2	28	24	2	2
Undertermined cause	11	8		3	9	6		3

TABLE 64 - MEDICAL EXAMINER ACTIVITIES
CASES WITH ALCOHOL TESTS BY MANNER OF DEATH
VIRGINIA, 1979

Percent Alcohol Blood Level	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Undetermined
TOTAL	2,115	902	296	279	634	4
Negative	595	189	81	54	270	1
Positive <.10	510	163	74	71	199	3
.10-.14	210	98	38	29	45	
.15-.19	243	138	38	37	30	
.20-.24	218	114	25	41	38	
.25-.29	148	75	23	21	29	
.30-.34	93	56	9	13	15	
.35-.39	44	26	3	9	6	
.40 and over	54	43	5	4	2	

TABLE 65
MEDICAL EXAMINER ACTIVITIES
CASES WITH BARBITURATE TESTS BY MANNER OF DEATH
VIRGINIA, 1979

Barbiturate Level	Total	Manner of Death				
		Accident	Suicide	Homicide	Natural	Other
TOTAL	96	33	20	10	32	1
Negative	40	15	2	10	12	1
Positive <1.0	18	7	4		7	
1.0-1.4	14	5	4		5	
1.5-1.9	6	1	4		1	
2.0-2.4	2				2	
2.5-2.9	5	3			2	
3.0-3.4	2	1			1	
3.5-3.9	1		1			
4.0 and over	8	1	5		2	

TABLE 66
MEDICAL EXAMINER ACTIVITIES
ACCIDENT CASES WITH ALCOHOL TESTS BY MEANS OF DEATH, VIRGINIA, 1979

Means of Death	Result Totals	Percent Positive for Alcohol								
		Neg.	Pos. <.10	.10 .14	.15 .19	.20 .24	.25 .29	.30 .34	.35 .39	.40+
TOTAL	902	189	149	100	143	115	78	57	26	45
Aircraft	10	6	4							
Burns/fire	5	1	2	1		1				
Cafe coronary-food ingestion	4			1		1	2			
Drowning	74	8	22	6	13	9	7	7	2	
Electricity	7	4	1	2						
Exposure-heat	1			1						
Exposure-cold	14	4	1	1	1	2	2	2		1
Falling object	11	9	2							
Fall	28	6	7	3	5	3	2		1	1
Gun	13	6	2	1	1	1	1	1		
Hanging	3	1	2							
Machinery	4	3			1					
Motorcycle	23	6	6	2	5	3	1			
Motor vehicle-driver	295	55	36	41	69	53	26	10	3	2
passenger	111	26	30	21	15	9	4	4		2
pedestrian	64	15	5	6	10	9	10	6	3	
unknown	35	10	4	2	9	2	4	4		
Poisoning										
Alcohol	80	1	5		2	7	5	9	14	37
Barbiturate	2	2								
CO-motor vehicle exhaust	9	2	1	4		2				
other internal combustion system exhaust	1	1								
fire/smoke inhalation	54	4	6	4	7	9	8	13	2	1
Narcotics/abused drugs	8	3	4				1			
Other poisons	11	2	3	2	2	2				
Suffocation	3	1					1			1
Tractor	2	1				1				
Train	10	5	1		1		2		1	
Other	20	7	5	2	2	1	2	1		

OFFICE OF HEALTH PROTECTION AND ENVIRONMENTAL MANAGEMENT

The Office of Health Protection and Environmental Management consists of the Divisions of Water Programs, Solid and Hazardous Wastes, Health Hazards Control, and Epidemiology. Each Division contains various Bureaus which carry out specific programs designed to protect the health and environment of the citizens of the Commonwealth.

WATER PROGRAMS

WATER SUPPLY ENGINEERING

In order to carry out the provisions of the Commonwealth of Virginia's Waterworks Regulations and the State Public Water Supply Law, the Bureau of Water Supply Engineering supervises public water supplies with emphasis being placed on maintaining close liaison with local officials and operators. As a result of the Waterworks Regulations, the Bureau has instituted an ongoing program to bring all public waterworks under a State operation permit. During fiscal year 1980, 483 Operation Permits and 136 Construction Permits were issued. Also during 1980, the Bureau initiated 1,449 enforcement actions which resulted from violations of conditions contained in operation permits. The enforcement actions range from informal hearings to the issuance of orders signed by the State Health Commissioner to formal litigation against violating waterworks owners. Bureau personnel devoted 6.62 professional manyears to waterwork enforcement actions.

The Bureau reviews and approves proposals, plans, and specifications for new waterworks or extensions or modifications of existing waterworks to insure that all facilities are designed to provide pure water. When new waterworks are proposed or major additions to existing waterworks are planned, proposals, plans, and specifications for these projects are submitted to the Bureau for review. The Bureau then makes recommendations to the State Health Commissioner for approval and issuance of permits for the projects. Also, the Bureau participates as technical consultant to the localities in the planning of new waterworks and the expansion and updating of existing waterworks facilities. During fiscal year 1980, Bureau engineers reviewed 1,157 applications, reports, proposals, and plans and specifications for waterworks improvement. Waterworks plan review accounted for 9.63 manyears.

The Bureau also performs sanitary surveys of existing waterworks. At the close of fiscal year 1980, the Bureau had under its supervision 2,070 community drinking water supplies ranging in size from small deep well systems serving the minimum number of 25 customers to the largest most complex municipal waterworks in the Commonwealth. During fiscal year 1980, 3,696 technical assistance contacts were made. An integral part of the surveillance program includes the monitoring of drinking water quality. Waterworks owners are required to perform regular and frequent chemical, physical, radiological, and bacteriological analysis of the water supplied to the customers. The Division of Consolidated Laboratory Services performed approximately 8,000 chemical analyses for the Bureau. The Safe Drinking Water Act is still providing a tremendous impact on the Bureau of Water Supply Engineering. The Commonwealth of Virginia is a primacy agency and as such, is responsible for the development and administration of a public water supply program which would be no less stringent than that carried out by

the Federal government. Also during the fiscal year, the Bureau continued with the development of a non-community waterworks strategy which will be carried out jointly with the local departments. Approximately 2,700 non-community systems are presently carried on inventory. The Bureau also offered a Statewide training program for waterworks operators.

ACTIVITIES OF THE BUREAU OF WATER SUPPLY ENGINEERING
VIRGINIA, FISCAL YEAR 1980

Public Water Supplies	Number
Projects Processed	
Applications Received	115
Reviewed	176
Approved	138
Reports Received	68
Reviewed	85
Approved	76
Proposals Received	53
Reviewed	49
Approved	55
Plans Received	454
Reviewed	847
Approved	417
Activities	
Operation Permits Issued	483
Construction Permits Issued	136
Technical Assistance Contracts	3,696
Waterworks Field Investigations	2,685
Enforcement Actions	1,449
Chemical Analyses performed by DCLS	12,738
Man-Hours* Expended in Program Areas	
Project Review	16,946
Technical Services	31,211
Enforcement	11,656
Data Management	3,723
Training and Certification	16,435
Program Management and Administration	16,590
Water Resources Planning	69

*Includes regional office and central office professional and clerical time.

Two key public health problems addressed by the Bureau during 1980 involved the actual and potential contamination of waterworks by man-made contaminants. The actual contamination occurred in October, 1979, and involved the accidental introduction of chlordane in a portion of the waterworks distribution system. The second incident occurred in Northern Virginia in March, 1980, and involved the rupture of an oil pipeline at two locations which threatened the drinking water supplies of Fairfax county and the city of Fredericksburg; however, no contamination of the systems occurred as a result of these breaks.

WASTEWATER ENGINEERING

The Department of Health regulates all sewage within the State as authorized in Title 32.1 Code of Virginia as amended and shares with the State Water Control Board, certain responsibilities under the State Water Control Law Title 62.1, Chapter 3.1 Code of Virginia as amended. Under these laws the Bureau of Wastewater Engineering reviews proposals, plans, and specifications for domestic wastewater collection and treatment systems, and maintains surveillance and supervision over existing systems. The Bureau, in order to protect the public health, performs the following functions: participates in the planning of new domestic wastewater systems; reviews and approves proposals, plans, and specifications for new or existing systems to determine if they are technically adequate, and are not a hazard to the public health; conducts field investigations; maintains close liaison with Federal, State and local officials as well as the wastewater system owners and operators, and consulting engineers; trains wastewater system operators; and advises cities, towns and counties of appropriate treatment schemes.

The Bureau currently has jurisdiction and maintains surveillance over 377 domestic wastewater treatment systems. A total of 2,007 technical services contacts were made during the past year and 395 certificates to operate were issued. During the past fiscal year, the Bureau reviewed 2,600 proposals, reports and plans and specifications for sewerage projects which accounted for 13.2 manyears. Bureau personnel spent 6.1 manyears on technical assistance related to wastewater and 4.96 manyears on administration of wastewater responsibilities.

ACTIVITIES OF THE BUREAU OF WASTEWATER ENGINEERING
VIRGINIA, FISCAL YEAR 1980

Sewerage Treatment Systems	Number
Projects Processed	
Proposals Received	843
Reviewed	735
Approved	676
Plans Received	1,170
Reviewed	1,619
Approved	1,098
Projects Received	215
Reviewed	251
Approved	192
Reports Received	188
Reviewed	246
Approved	173
Activities	
Construction Permits Issued	2
Certificates to Operate Issued	395
Technical Assistance Contacts	2,007
Field Investigations, Sewerage	832
Field Investigations, Marinas	128
Man-Hours* Expended in Program Areas	
Project Review	23,171
Technical Service	10,611
Enforcement	2,005
Training and Certification	6,447
Program Management and Administration	8,723

*Includes regional and central office professional staff only.

The Bureau of Wastewater Engineering has developed a program for enforcing the State Board of Health's "Rules and Regulations Governing Sanitary and Sewerage Facilities at Marinas and Other Places Where Boats are Moored," dated September, 1975, and is presently seeking compliance with the rules. Approximately 109 field investigations concerning marinas and/or associated facilities were made during fiscal year 1980. The Bureau of Water Supply Engineering and the Bureau of Wastewater Engineering, in joint effort, actively support and participate in the operation of short schools for the training of water and wastewater works operators. The annual short school at Virginia Polytechnic Institute and State University is held in cooperation with the State Water Control Board and others. The advanced short school at Virginia Military Institute is a sole responsibility of the Division of Water Programs.

The Bureau of Wastewater Engineering has been tasked to draft sewage handling and disposal regulations for the Commonwealth. Approximately two manyears of Bureau and Division effort were expended in this task. The committee formulating these regulations is composed of mixed disciplines and met on 23 occasions while formulating the second and third drafts and conducting internal workshops. Seven public workshops were held to involve public participation in the preparation of these regulations. Upon adoption, the Bureau will have responsibility for the administration of this program.

SHELLFISH SANITATION

The Bureau of Shellfish Sanitation exercises sanitary control over Virginia's shellfish and crab meat industries for the health protection of the consuming public. This work is carried on through inspections of processing plants, sanitary surveys of growing areas, and laboratory control of the products. Bureau offices are maintained in Richmond, with area offices and laboratories in Accomack, Norfolk, and White Stone.

There were 368 certificates issued to shellfish processing plants during fiscal year 1980 and 48 to crab meat processing establishments. Three thousand four hundred nineteen inspections were made at shellfish and crab meat processing plants for sanitary surveillance. In addition, 311 trucks and 163 boats used in harvesting and transporting shellfish were inspected. There were 3,536 "raw" and final product samples collected from shellfish and crab meat processing plants, growing areas and in transit during the season to assure that quality control standards were being met. Included in this number were 359 samples of shellfish from out of state, since approximately 60 percent of the shell oysters processed within Virginia during the season were imported from Maryland waters. A total of 1,670 water samples were collected and examined from shellfish and crab meat processing plants to assure a potable water supply (see Table 67 on page 207).

Shellfish may be marketed that have been transplanted from condemned to approved waters for cleansing purposes. There was a 2.7 percent decrease in the number of clams transplanted for a total of 12,863,673 and 186 percent increase observed in the number of bushels of oysters transplanted for a total of 25,608 bushels. The increase in the shellfish relaying activity resulted primarily from the maturation of an excellent "set" of oysters in the Back River. Additional resources and manpower will be needed to give adequate surveillance to the depuration phase of the industry as it develops.

Sixteen sanitary surveys and 17 reinvestigations of shellfish growing areas were made during fiscal year 1980. On these surveys, 10,106 properties were inspected

for the detection of pollution that might affect water quality. Concerted efforts have been made to eliminate shoreline deficiencies found on surveys. This effort which has been successful needs to be maintained. The fiscal year started with an existing outstanding balance of 946 shoreline deficiencies reported to the local health departments for abatement. During the year, 407 new deficiencies were added as a result of new surveys and reinvestigations conducted. Local health departments reported 636 deficiencies corrected, leaving an outstanding balance of 717 deficiencies. This is a balance decrease of 24.2 percent. Bacteriological and hydrographic surveys were made in 109 shellfish growing areas during the year.

In order to minimize or eliminate the necessity for closure of additional shellfish growing areas, more time and effort are being required to evaluate the total effect on shellfish waters of various proposed sewage treatment facilities for dwellings, businesses, industries, marinas, and other developments. Efforts are constantly being made to prevent additional pollution and degradation of shellfish producing waters. There were 678 environmental impact evaluations made in this regard by the Bureau during the fiscal year.

During the 1980 fiscal year, 747 acres were restricted because of increased pollution hazards while approximately 107 acres of shellfish growing area were released from condemnation. The examination of 23,146 seawater samples overlying shellfish beds along with 177 shellfish samples from growing areas helped to assure the proper classification of these areas.

The kepone problem continues to have an adverse effect on the Virginia shellfish program. There were 563 oyster and crab samples collected and/or prepared for kepone analysis by the Bureau of Shellfish Sanitation to assess any public health hazards. Considerable efforts have been and continue to be expended in this area of control at the expense and detriment of certain other portions of the program.

SOLID AND HAZARDOUS WASTE MANAGEMENT

SOLID WASTE

The State Health Department continues to be responsible for the regulation of the proper disposal of all garbage, refuse, and other solid wastes in the State. Cities and counties are responsible for providing proper disposal in accordance with regulations adopted by the State Board of Health in April, 1971.

The Division provides evaluation of existing and proposed treatment and disposal sites, issues permits where appropriate and provides for inspection of on-going operations. The Division continues to identify unsatisfactory operations and takes necessary action to have them corrected. It investigates all cases of illegal disposal of solid and hazardous wastes and causes their cleanup and disposal, when necessary.

The State Solid Waste Management Plan has been prepared and was adopted by the Board of Health. It forms the basis for future regional and local management plans.

The 1979 session of the General Assembly recodified the Virginia Health Code. Substantial changes have been made in the portion dealing with the management of solid and hazardous wastes necessitating revision of present rules and regulations governing disposal of solid wastes. Such revision was initiated.

HAZARDOUS WASTE

Based on the recodification of the Virginia Health Code, the State Health Department drafted new regulations on hazardous waste management. The draft regulations are essentially equivalent to the Federal regulations promulgated on May 19, 1980. It is expected that Virginia will become eligible to administer the hazardous waste management program in August, 1981, if the regulations are promulgated by November, 1980.

VECTOR CONTROL

The Bureau of Vector Control continues to provide consulting and advisory support for local governments and private citizens. Activities of the 28 organized mosquito control districts are supervised by the Bureau. Bureau staff represent the Commissioner of Health on each Mosquito Control Commission and function as chairmen of each commission. Financial assistance provided to each commission by the State is also administered by the Bureau.

In addition to these supervisory and advisory functions, the Bureau provides consultation on controlling problems involving rats, mice, ticks, flies, mosquitos, fleas, and other vectors. Where necessary, the Bureau recommends the proper type of control or advises local governments in their control efforts. The Bureau also identifies specimens of other vectors sent in by local health departments and citizens, gives advice on their public health significance and recommends control measures.

ACTIVITIES OF THE DIVISION OF SOLID AND HAZARDOUS WASTE MANAGEMENT
VIRGINIA, FISCAL YEARS 1979 AND 1980

Activity	Fiscal Year	
	1979	1980
Solid Waste		
Inspections and investigations	2,594	2,713
Surveys	72	105
Disposal sites evaluated	115	113
Meetings and conferences	1,489	1,512
Assistance in preparation of local ordinances		5
Valid permits issued	15	13
Nonconforming permits issued	3	6
Dumps closed	13	3
Sanitary landfills started	2	2
Assistance in solving hazardous waste problems	403	446
Complaints		17
Mosquito Control		
Meetings and conferences	116	90
Investigations	20	7
Surveys		1
Identifications	2,905	
Rodent Control		
Investigations	14	4
Meetings and conferences	8	4
Dumps poisoned	3	1
Sewers poisoned	2	1
Other Vectors		
Investigations	3	6
Meetings and conferences	7	41
Advice given	90	137
Identifications	30	29
Training		
Training courses participated in	25	25
Talks to civic clubs	10	12
Men given on-site training	11	50
Film showings	15	16
People viewing films	157	505
TV interviews	6	12

TOURIST ESTABLISHMENT SANITATION

The travel industry in Virginia continued to increase at a marked rate. Approximately 2.6 billion dollars were expended by the traveling public in 1979 and the industry provided employment for 249,000 persons. Investment in new construction totalled $56,302,750. The total number of approved units in transient lodging facilities was 72,640. Approved camping units numbered 39,557. There were 661 approved swimming facilities at tourist establishments.

At least two inspections of all these establishments were made during the year and minimum standards were maintained without the need of court action. Bureau personnel are responsible for the administration of pertinent health rules and regulations as embodied in Title 35, Code of Virginia. In addition to sanitation requirement considerations, close liaison was maintained with the State Fire Marshal's office in regard to fire safety and with the Virginia Uniform Building Agency. Close cooperation is also conducted with the State Highway Department relative to sign requirements on public roads.

The style of travel has shifted to some degree to more air travel and other common carriers; this is thought to be due to increasing energy costs.

The growth of the campground industry has slowed somewhat; however, the condominium type facility remains popular. The trend in new campgrounds is having all camp sites equipped with sewer connections. There was growth in the economy budget-type motel and in the large type convention complex, giving a wide variation in types of services offered.

Food service establishments showed dramatic growth in the limited-menu specialty type such as the hamburger specialty, like MacDonalds; the chicken specialty, like the Golden Skillet Chain; and the seafood specialty, like Long John Silver's. The shift toward more travel by common carrier increases the necessity of added surveillance of the food service catering points. The primary function of the food consulting program in the Bureau is to evaluate the effectiveness of the food enforcement work. There are 12,500 public food service establishments in the Commonwealth, all subject to the State Restaurant Law. The food consultants of the Bureau measure the degree of compliance. All personnel involved must meet certification standards of the USPHS-FDA as being proficient in interpretation of their Recommended Code. Inspections of interstate carrier food services are done in cooperation with FDA. Bureau food consultants also make inspections of food services at public and privately owned institutions, such as mental, penal and tuberculosis institutions. Seventeen surveys were made of State institutions and seventeen inspections were made of catering points for the Interstate Carrier Program FDA/ITS. The Bureau is continuing to offer food service manager certification courses which began in 1974 with FDA funding. Training and certification of an additional 263 managers was achieved during the year.

In fiscal year 1980, the food consultants completed 38 food shed surveys involving 1,053 food service establishments. Food consultants also assisted with 79 food training sessions which had a total attendance of 2,326 and certified 263 food service managers. Standardization and certification procedures for food sanitarians consumed 63 days and resulted in 10 certified food sanitarians and 14 standardized food sanitarians.

The five food consultants are now certified Food Service Evaluation Officers according to the new procedures accompanying the 1976 Federal Recommended Ordinance and Code, and all attended the annual seminar held for Region III FDA/PHS.

Over five hundred consultation visits were made to local health departments. Most of these visits concerned code interpretation and instructions on foodbourne disease outbreaks. Three industry exhibits were displayed and fourteen sets of food service plans were reviewed for schools and State institutions. Under contract with the U. S. Department of Agriculture's summer food service program for children, 249 food samples were collected during the second and third quarters.

ENVIRONMENTAL HEALTH

In 1979, the local environmental field staff (410 sanitarians) reported 847,756 services performed for the public. The environmental services of the sanitarian in some way impacted on every man, woman and child of the Commonwealth, as well as upon most tourists. In practicing his profession the sanitarian visits homes, public and private schools, colleges and universities, hospitals, businesses, recreational areas, tourist establishments and other places where Virginia citizens and others may choose to live or visit. The sanitarian has many diversified responsibilities that are related to sewage disposal, water supplies, food and milk protection, housing code enforcement, waste disposal surveillance, public establishment maintenance and many other areas.

Much of the sanitarians time and activity (27 percent) is spent in the on-site sewage disposal program (229,000 services). Services include issuing 35,000 permits, approving 26,000 new septic tank systems, repairing 4,600 old systems and responding to 10,400 complaints. Also, 4,500 proposed sites for septic tanks were found to be unacceptable. Closely allied to the sewage program is the on-site well water program which is now 11 percent of the sanitarian services. Of the 91,000 services recorded in the water program, 36,400 were the taking of water samples. Tables 68 and 69 on page 208 give detailed information about sanitarian activities in 1979.

The sanitarian has responsibility for maintaining surveillance over the 18,000 food establishments, including restaurants, school cafeterias and counter freezers. Of the 168,000 food services, 104,000, or 16 percent, were routine inspections. Other services included plan review, equipment maintenance instruction, food service, personnel training and the investigation of complaints and foodbourne diseases.

The prevention of substandard housing and the rehabilitation or demolition of substandard houses through education and promotion or enforcement of local housing codes are activities of sanitarians in many urban localities. Of the 95,000 services rendered, 15,200 were corrections to substandard houses and 12,800 were to complaints.

Like food establishments, many other types of establishments serving the public are subject to routine environmental health inspections by health department personnel. Establishments such as service stations, summer camps, migrant labor camps, marinas, barbers and hairdressers, etc. are governed under State regulations or local ordinances. In all, sanitarians maintained surveillance over 32,000 establishments during 1979 and made 217,000 inspections. Sanitarians also investigated 72,000 complaints which related to every type program for which the department has responsibility.

MILK SANITATION

Local health departments and State personnel rendered 28,027 services in the Milk and Frozen Dessert Program. These services included routine sampling, required equipment tests, and inspections at 27 Grade A milk processors, 2 single service plants, 72 out-of-state Grade A processors, and 1,782 frozen dessert establishments.

State personnel involved in the National Conference on Interstate Milk Shipments certified 16 processors, and 8 producer cooperatives for inclusion on the Interstate Milk Shipments list, and assisted FDA with 17 check ratings.

ACTIVITIES OF MILK SANITATION
FISCAL YEAR 1980

Program	Services	Permits	Samples
Milk	7,185	72	8,450
Frozen Dessert	20,780	1,782	13,705
Single Service	62		132

OCCUPATIONAL HEALTH

Significant illness and death are caused over a long period of time by conditions to which workers may be exposed at their places of employment. A primary purpose of the Bureau of Occupational Health is to identify and bring about abatement of conditions which might cause ill health or death.

A Federal law, PL 91-596, the Occupational Safety and Health Act of 1970, provides for enforcement of safety and health standards to assure safe and healthful working conditions. The law also provides the opportunity for states to enforce the OSHA standards if the state's enforcement level is as effective or more effective than the Federal one.

The Virginia State Plan for administering the Occupational Safety and Health Act was approved effective October 1, 1976. Since that time, the Bureau of Occupational Health has been actively involved in implementing the State Plan.

During fiscal year 1980, 254 enforcement inspections of workplaces were made. These inspections were carried out to determine if the workplaces were in compliance with Virginia Occupational Health Standards. There were 83 inspections made in response to complaints and two were conducted as a result of workplace accidents. As a result of a referral or because the workplaces had a high priority status on the general schedule listing, 169 inspections were made. A total of 51,963 people were employed in plants inspected by enforcement industrial hygienists and of these, 24,148 employees were directly affected by the inspections. Another major activity of the Bureau is educating the public concerning aspects of occupational health. During fiscal year 1980, 187 training events were carried out by the nursing section and the Voluntary Compliance Section of the Bureau. These speeches, conferences and classes were attended by 1,631 people (occupational health nurses, employees, employers) for a total of 13,010 contact hours. Topics for these events covered "Noise Control," "Asbestos Control," and "Hazard Recognition." A training package on asbestos was provided at several locations throughout the State.

In addition, several training sessions were conducted for the Occupational Health personnel. These in-house topics included an overview of industrial hygiene, identification of hazards, Federal and State policies and procedures, and calibration and operation of field instruments.

A significant amount of the training, directed by the Occupational Health Nurse Consultant, took the form of workshops held at various locations throughout the State. The off-site consultation conducted with nurses and management from various industries produced positive results. Some of the more significant results of these consultations included the development of a "Guide for the Development and Maintenance of Occupational Health Medication Protocol" and an industrial nurse being employed in each of five poultry processing plants within the State. This action completes initial steps of establishing an industrial medical clinic used and supported by firms located in a rural section of Virginia.

The Bureau also provides consultation to employers throughout the State. The Voluntary Compliance Section, in addition to their training duties, perform consultative surveys in the public sector. During fiscal year 1980, 38 inspections of public workplaces were carried out by this section of the Bureau of Occupational Health.

ACTIVITIES OF THE BUREAU OF OCCUPATIONAL HEALTH
VIRGINIA, FISCAL YEAR 1980

Activities and Services	Fiscal Year 1980
Enforcement	
Total enforcement inspections made	254
Inspections made from complaints	83
Inspections made from referrals and general schedule	169
Inspections made from accident reports	2
Total employees in plants inspected	51,963
Total employees in those plants affected by inspections	24,148
On-Site Consultation	
Requests for consultation	
Requests handled by telephone	15
Requests handled by inspections	117
Inspections resulting in helpful recommendations to employers	117
Total employees protected from hazard	811
Total employees affected by inspections	5,153
Training Programs	
Speeches	
Number of events	20
Number of attendees	388
Number of contact hours	1,555
Conferences	
Number of events	128
Number of attendees	557
Number of contact hours	6,636
Classes	
Number of events	39
Number of attendees	686
Number of contact hours	4,819

A separately funded On-Site Consultation Program provides free consultation services to private employers. Upon the request of an employer, a health consultant conducts an on-site survey of the workplace, identifies and evaluates health hazards, and makes recommendations concerning the abatement of these hazards.

During fiscal year 1980, the On-Site Consultation Program received 147 requests from employers. Of these, 15 were handled by telephone, while 117 requests resulted in workplace inspections made by consultation personnel. As a result of these efforts, 811 employees were protected from recognized hazards and 5,153 were affected by the inspections.

RADIOLOGICAL HEALTH

During fiscal year 1980, the Bureau of Radiological Health performed many services and activities with the goal of minimizing radiation exposures and hazards to the citizens of Virginia.

ACTIVITIES OF THE BUREAU OF RADIOLOGICAL HEALTH
VIRGINIA, FISCAL YEARS 1979 AND 1980

Activities and Surveys	Fiscal Year	
	1979	1980
X-ray Surveys		
Type of Facility		
Dental	302	265
Medical	32	49
Hospitals and Clinics	70	56
Industrial	3	3
Other	9	3
Type of Survey		
Initial Surveys	348	330
Periodic Surveys	10	3
Follow-up Surveys	58	43
Source of Survey		
Self-initiated	176	268
Requested	240	108
Environmental Surveillance		
Samples submitted for radioanalysis/evaluated	1,405	2,177
TLD Environmental Radiation measurements	108	174
Materials Licensing		
Radioactive materials licenses written	36	29
Radioactive materials inspections	*	18
Other Services		
Conferences	40	46
Consultations	58	49
Lectures given	11	9
Inquiries answered	155	747
Microwave oven reports reviewed and evaluated	1,387	899
Other Activities		
Classes attended	32	164
NRC-State Joint Inspections	*	11

*Not available

Radiation control regulations were updated with an effective date of September 1, 1980. Regulations dealing with the transportation of hazardous radioactive materials were completed and became effective in February, 1980, with the subsequent registration of shippers and carriers.

Procedures for implementation of the radiological emergency response plan were refined and expanded. Preparation was begun for emergency response drills.

Environmental monitoring capabilities around the nuclear power plants were improved. These improvements included such things as modifications of existing samples, an increase of sampling locations, and an increase in sampling frequency for some media.

During the year, Bureau staff began planning for a mobile field laboratory to be used for environmental surveillance and emergency response. Also, the initial Dental Exposure Nationwide Trends Program (DENT) was completed with achievements in radiation exposure reduction. The Phase IV Breast Exposure Nationwide Trends Program was run with 90 percent participation of affected facilities. Significant exposure reduction was realized by this Program.

BEDDING AND UPHOLSTERED FURNITURE INSPECTION

This section provides a quality assurance program to the Virginia consumer by periodic inspections of all department stores and retailers selling bedding and upholstered furniture. Manufacturers, upholsterers, and supply dealers are also inspected to monitor the cleanliness and quality of filling materials. Anyone selling used bedding to the public must first register, and obtain a sterilizer permit. Sanitizing by an approved method and a dated yellow tag affixed to the article indicating day sanitized are required.

Total funding for these services is supplied by the collection of annual license fees. These fees totaling $121,440 through June, 1980 compared to $120,670 through June, 1979, indicate a stable market in Virginia during a time of business recession.

While retailer inspections dropped by 12 percent from 1979, violations almost quadrupled showing that more effective work is being accomplished.

Violations incurred include: merchandise not labeled, manufacturers not licensed to sell in Virginia, merchandise mislabeled or incorrectly labeled, used bedding not sanitized and yellow-tagged, itinerant pedlar's selling "off-the-truck" merchandise not meeting State requirements, and merchandise which failed testing by the Virginia Consolidated Laboratories being removed from the retailer sales floor and sent out of state.

Microban X-580, a water based non-flammable bactericide, fungicide, insecticide, and deodorant has been approved as a recommended method to sanitize used bedding and upholstered furniture. This will add an alternative source of supply to permit holders using the chemical spray method.

Work has been completed on a revised booklet covering the Bedding and Upholstered Furniture Law which includes the following: recodified code effective October 1, 1979; updated Virginia approved law labels for new and used bedding and upholstered furniture; updated and revised Definitions of Filling Materials; and approved methods of sanitizing used bedding.

ACTIVITIES OF THE BUREAU OF BEDDING AND UPHOLSTERED FURNITURE INSPECTION
VIRGINIA, FISCAL YEARS 1979 AND 1980

Bedding Inspection Activities	Fiscal Year 1979	Fiscal Year 1980
Inspections		
Retail Outlets	2,715	2,354
Manufacturers	748	542
Sterilizing Plants	281	341
Others	102	129
OSHA	12	5
Condemnations: New	2,684	9,983
Used	630	670
Merchandise ordered out-of-state for failure to comply with the Virginia law	384	96
Licenses Issued		
Bedding Manufacturers	444	461
Upholstered Furniture Manufacturers	827	820
Renovators	15	16
Reupholsterers	684	633
Supply Dealers	80	77
Sterilizer Permits	174	176
Importers	24	39
Samples Collected for Analyses	24	29

TOXIC SUBSTANCES INFORMATION

The geographical inventory of chemical substances manufactured or used in manufacturing by commercial establishments has been computerized. The following table shows the number of Virginia and out-of-state firms reporting chemical use or manufacture and the number of chemicals reported in the public files as of July 1, 1980. It should be noted that the data in this table are not truly indicative of chemical use/manufacture in the Commonwealth due to adoption of exclusions and exemptions as well as statutory limitations requiring only manufacturers to report as opposed to service industries.

CHEMICAL INVENTORY REPORTS IN PUBLIC FILES ON JULY 1, 1980

Virginia Establishments	
TOTAL	2,650
Reporting	2,325
References	325
Out-of-State Suppliers	
TOTAL	3,091
Directly reporting suppliers	60
Reference suppliers	3,031
Chemical Substances	
Total substances reported	44,000
Individual substances reported	30,500
Chemical substances reported	3,200
Unidentified substances	3,200
Tradenamed substances	24,100
Tradenamed Mixtures	
Total reported	27,340
Ingredient forms filed	2,995
Total ingredients reported	15,760

Toxicological data are retrieved and evaluated in response to specific requests of State agencies, local governments, media and the public, thus affording a central resource for those requiring such service. The range of these requests is broad and includes such things as: use of asbestos-concrete pipe for drinking water; habitability of residence after contamination; effects of spilled chemcials on human, land, animal and aquatic life; acute and chronic effects from work-related exposures; analytical techniques and methods of decontamination; and use of highly toxic substances in school science laboratories, art classes and vocational shops.

Similiar evaluations are made for mass dissemination to affected parties on newly-reported toxic effects, on subjects of current and/or popular concern and when widespread misuse is apparent. In a Health Hazard Alert format, subjects covered have included acrylonitrile, asbestos, potential hazards of mercury vapor and metal halide lamps, urea-formaldehyde foam insulation and pentachlorophenol-treated lumber for homes.

The table following shows the number of health hazards evaluations reported as completed during the last two fiscal years. The tabulation generally does not include long-term, continuing studies, repetitive inquiries on matters of current public concern, referrals to other State or local agencies or repiies to queries which require less than 30 minutes of staff time. Included in the State Health Department total are 12 staff units in the Central Office as well as iocal and regional health agencies.

HEALTH HAZARDS EVALUATIONS COMPLETED
FISCAL YEARS 1979 AND 1980

Evaluations	1978-79	1979-80
TOTAL	152	230
Federal Agencies		2
Virginia Agencies	136	192
Agriculture and Consumer Services	1	1
Attorney General	3	3
Colleges and Schools	7	9
Consolidated Laboratory Services	3	6
Education	1	1
Governor/Secretaries	1	1
Health	101	148
Highways and Transportation		1
Industrial Commission	1	
State Water Control Board	18	22
Non-Virginia State Agencies		2
Individuals	11	26
Attorneys		1
Physicians	6	9
Private Citizens	5	16
Industry	5	8

KEPONE STUDIES

The purpose of the Bureau is to co-ordinate studies of the possible health effects of Kepone exposure. During this past year, a number of epidemiological studies on the possible effects of dietary exposure to the pesticide were initiated. Results suggested that a reliable marker for Kepone blood levels in populations with long-term, low-level exposure cannot be determined.

EPIDEMIOLOGY

COMMUNICABLE DISEASE

Reported cases of most immunizable diseases decreased in 1979. Of the 288 cases of rubeola identified, 69 percent occurred in the 10-19 year age group. Thirty-nine percent of the cases had been previously immunized (12 percent at less than one year of age); 44 percent were unimmunized. Major rubeola outbreaks occurring in southwestern Virginia accounted for 72 percent of the State's cases.

The predominant age group for rubella cases continued to be 15-24 years. Thirty-five percent of the cases were unimmunized. Forty-eight percent of the cases occurred in college or university students.

Reported cases of mumps in 1979 were the lowest since surveillance of the disease began. Cases ranged in age from 16 months to 58 years, with the 5-9 year age group predominating.

Three cases of tetanus occurred in elderly males. One patient expired.

One case of diphtheria was diagnosed in 1979 in an unimmunized nine year old.

Thirty-eight percent of Virginia's pertussis cases in 1979 were unimmunized.

One case of disseminated vaccinia was reported in a six year old child being immunized for travel to Korea.

A suspect case of smallpox in a seven year old Korean child was investigated and determined to be a case of molluscum contagiosum.

The largest number of aseptic meningitis cases reported since 1959 were identified in 1979. As usual, most cases occurred in infants less than one year of age (44 percent). Of the cases for which an etiology was confirmed, most were due to an echo virus (84 percent).

Forty-three cases of encephalitis, eight of which expired, were reported. Of those cases for which an etiology was identified, 97 percent were due to a virus (50 percent to herpes).

The greatest number of reported cases of meningoccal infections since 1963 were identified in 1979. Of the 87 cases (12 deaths), 39 percent occurred in patients between the ages of 3 weeks and one year. Of the cases for whom a type was known, 4 were type A, 24 type B, 20 type C, 1 type Z, and 4 type Y.

Seventy-one percent of the 172 cases of bacterial meningitis (excluding meningococcal) reported occurred in children less than five years of age. H. influenza meningitis accounted for 52 percent of the cases. Twelve of the 90 H. influenza cases were ampicillin resistant.

Of the 27 cases of pneumococcal meningitis reported, 61 percent gave no history of a previous serious illness, or surgery.

Although there were no large outbreaks, the total reported cases of salmonellosis in 1979 was the highest ever recorded (1,151 cases). As usual, the predominating serotypes were S. typhimurium (47 percent), S. hiedelburg (7 percent), S. newport (4 percent), and S. infantis (4 percent).

Shigella case totals also rose; S. sonnei continued to be the predominating serotype (84 percent).

Four of the six cases of typhoid fever were related to foreign travel, and one to a laboratory accident. Two typhoid carriers were also identified.

Ten outbreaks of foodborne illness involving 709 people were reported in 1979. The largest outbreak involved 524 patients in a state mental institution, and resulted from consumption of goulash contaminated with C. perfringens. Most outbreaks resulted from improper storage of foods.

Four water borne outbreaks were also investigated in 1979. The largest outbreak involved 72 people who attended a community swimming pool. The etiologic agent although not confirmed, was thought to be a virus.

Another waterborne outbreak involved nine members of an Eastern Shore family who became ill after consuming well water contaminated with arsenic. The father and one child subsequently expired. The source of the contamination could not be determined.

Reported cases of hepatitis A (infectious) continued a gradual decline. Cases ranged in age from 8 months to 83 years, with age groups 20-24 years (21 percent) and 30-39 years (18 percent) predominating. There were no large outbreaks. Of the cases for whom specific information was available, 19 percent gave a history of contact with a hepatitis case within 2-6 months of onset of symptoms (54 percent were non-household contacts), and 13 percent had dental work during that same period. Nine percent had consumed raw shellfish in the two months prior to onset. Only one percent of the cases was associated with day care centers.

Hepatitis B (serum) case totals continued to increase in 1979. The 20-24 year age group continued to predominate, accounting for 28 percent of the cases. Only one outbreak occurred and involved eight intravenous drug abusers who shared a needle. Of those cases for whom a history was available, 22 percent had known contact with a hepatitis case prior to onset of symptoms, 18 percent had a history of known or suspected parenteral drug abuse, 13 percent had dental work within two months of onset, and 3 percent had a history of transfusion.

Fifteen of the 17 cases of brucellosis reported in 1979 were abatoir associated. Twenty cases of animal rabies were reported in 1979 including 11 bats, 4 skunks, 4 raccoons, and 1 groundhog.

Of the 90 cases of Rocky Mountain spotted fever reported, 83 percent had a history of tick bite or attachment. The one death occurred in a ten month old infant who was initially diagnosed as having chickenpox.

The greatest number of malaria cases reported since the era of the Vietnamese conflict (1971), were recorded in 1979. Of the 30 cases, 77 percent were due to P. vivax, 16 percent to P. malariae, and 6 percent to P. falciparum. None of the cases were related to the military. The source of infection for 43 percent of the cases was India/Pakistan, with 23 percent related to travel or residence in Southeast Asia, and 20 percent to West Africa. Forty-seven percent of the cases received no pre-exposure prophylaxis.

Of the two cases of tularemia reported, one was related to contact with a rabbit, and one to a cat bite.

There were 23 cases of Reye's Syndrome reported in 1979 with 8 deaths. Seven of the 23 gave a history of chickenpox within two weeks of diagnosis.

Forty-four percent of the 18 cases of Kawasaki's Disease occurred in patients between the ages of 5-9 years. Cases ranged in age from 11 months to 12 years. There were no deaths.

The 18 cases of Legionnellosis reported in 1979 ranged in age from 28 to 78 years. Fifty-four percent were smokers and 67 percent had been exposed to some type of excavation or construction prior to onset of symptoms.

The year 1979 was a mild one for influenza with only 410 cases reported. The predominating serotype in our State was A/USSR/90/77.

Because of the influx of Southeast Asian refugees in 1979, the number of cases of parasitic diseases such as ascariasis, giardiasis, ancylostomiasis (hookworm disease), trichiniosis, and clonorchiasis significantly increased. The increase was not considered a public health hazard because the generally high levels of sanitation in Virginia would interupt the chain of transmission.

A large outbreak of gastroenteritis on a university campus was investigated and the cause suspected to be Winter Vomiting Disease.

An extensive investigation was conducted at a nuclear power plant when 12 workers involved in repairing a steam condensor at the plant were simultaneously hospitalized with similar symptoms. The illness eventually involved 26 condensor workers and was determined to be due to a syndrome known as "metal fume fever."

Immunization

The Federally funded Virginia Immunization Program met the goal of the National and State Immunization Initiative during 1979 which was to increase immunization levels of all children under age 15 to above 90 percent by October, 1979. As part of this project, the Immunization Program worked with the Department of Education to conduct an assessment of immunization levels of all school children in Virginia from kindergarten through the eleventh grade.

The 1979 Survey of Immunization Levels of Two-Year-Old Children was conducted July through September. The random sample survey of 1,129 children born to Virginia residents in 1976 yielded these results:

1979 SURVEY OF IMMUNIZATION LEVELS OF TWO-YEAR-OLD CHILDREN

HSA	Percent Response Rate	Percent Starting Immunizations	Percent Completing Basic Series*	Percent Completing Basic Series and Mumps
VIRGINIA	75.5	99.6	81.1	78.0
HSA I	82.3	98.9	81.5	74.6
HSA II	61.8	100.0	78.7	73.8
HSA III	83.1	99.5	83.4	80.8
HSA IV	79.7	98.9	84.9	83.8
HSA V	68.2	100.0	78.6	78.6

*The Basic Series includes 3+ DPT, 3+ Polio, 1 Measles, 1 Rubella.

The annual School Enterers Survey results were compiled and released. A total of 97.4 percent of children who started school at the beginning of the 1979-80 School Year were adequately immunized against polio, diphtheria, pertussis, tetanus, measles, and rubella. Individual immunization levels were: DPT, 98.1 percent; polio, 97.9 percent; measles, 98.8 percent; rubella, 98.8 percent.

Immunization levels increased approximately 4 percent for each vaccine from the 1978-79 survey.

A survey was also conducted to determine immunization levels of children in child care centers.

RESULTS OF THE 1979 CHILD CARE CENTER IMMUNIZATION SURVEY

HSA	Number of Centers	Percent Responding	Number of Children Surveyed	Percent of Children Adequately Immunized*
TOTAL	534	84.3	25,126	90.9
HSA I	39	94.9	1,627	92.4
HSA II	130	87.7	6,852	93.6
HSA III	130	87.7	5,140	85.6
HSA IV	98	83.7	4,940	91.8
HSA V	137	75.2	6,567	91.2

*Adequately immunized is 3+ DPT, 3+ Polio, 1 Measles, 1 Rubella.

After an outbreak of polio was reported among the Amish in Pennsylvania, the Immunization Program staff identified 500 to 600 Amish in several areas of Virginia. Polio immunizations were offered to this group of people and 276 Amish received the vaccine.

The total number of cases of measles reported in the State dropped to 288, a dramatic decrease from the 2,837 cases of measles in 1978. The decrease can be attributed partially to an increased immunization field staff who investigated all disease reports within 48 hours and who initiated an active surveillance of physicians throughout the State.

Vaccines are supplied to local health departments through the Bureau of Biologics and Drugs. Vaccines administered in health department clinics during fiscal year 1979-80 are shown in the following table:

VACCINES ADMINISTERED IN LOCAL HEALTH DEPARTMENT CLINICS
VIRGINIA, FISCAL YEAR 1980

Vaccine	Total Doses
Tetanus	410
Tetanus-Diphtheria (Td)	34,726
Diphtheria-Tetanus-Pertussis (DTP)	84,657
Measles	6,744
Rubella	2,801
Mumps	3,830
Measles/Rubella (M/R)	10,337
Measles/Mumps/Rubella (M/M/R)	31,087
Oral Polio (TOPV)	66,829

In addition, approximately 3,000 doses of measles vaccine were administered in outbreak control programs in three counties in 1979.

Venereal Disease

During fiscal year 1980, a total of 1,502 cases of syphilis were reported in Virginia: 508 cases of primary and secondary syphilis, 410 cases of early latent syphilis, and 584 cases of other syphilis. Reported cases of syphilis in 1980 reflect a 7.5 percent decrease (122 cases) from the 1,624 cases of syphilis in 1979. This decrease in total syphilis morbidity can be attributed to the 7.4 percent decrease in early latent syphilis (from 443 in 1979 to 410 in 1980), and the 14.1 percent decrease in late and late latent syphilis (from 680 cases in 1979 to 584 in 1980). Primary and secondary syphilis increased from 501 cases in 1979 to 508 in 1980, or 1.4 percent.

During fiscal year 1980, there were 22,251 cases of gonorrhea reported in Virginia, an 8.7 percent decrease over the 24,362 cases reported in fiscal year 1979. Data by planning district and city or county of residence for calendar year 1979 are shown in Table 73 on page 214.

GONORRHEA SCREENING CULTURE RESULTS FOR FEMALES
BY SOURCE OF TEST, VIRGINIA, FISCAL YEAR 1980

Source of Test	Number Tested	Number Positive	Percent Positive
Total - All Clinics	249,502	10,384	4.2
Non-VD Clinics	227,340	6,280	2.8
Health Department-Non-VD	117,031	3,168	2.7
Hospital Out-Patients	13,331	775	5.8
Hospital In-Patients	37	1	2.7
Community Health Centers	1,194	38	3.2
Private Physicians	88,949	2,156	2.4
Other	6,798	142	2.1
VD Clinics	22,162	4,104	18.5

A total of 249,502 women were screened for gonorrhea during fiscal year 1980, with a positivity rate of 4.2 percent (10,384 positive cultures). This represents an increase of 16,129 over the 233,373 women screened in 1979, and a decrease in the positivity rate (4.5 percent in fiscal year 1979). For the past three years there has been a steady increase in the number of females screened for gonorrhea along with a steady decrease in the positivity rate.

FEMALES SCREENED FOR GONORRHEA

Fiscal Year	Number Tested	Number Positive	Percent Positive
1980	249,502	10,384	4.2
1979	233,373	10,430	4.5
1978	221,923	10,437	4.7

During the last half of fiscal year 1980, the gonococcal Pelvic Inflammatory Disease (PID) program began to accumulate statistical data. Of the 192 cases of gonococcal PID reported during this time period, 182 (94.8 percent) were located for an interview. There were 78 patients (43 percent) that received a medical assessment within seven days of their initial therapy. Of the 182 cases of gonococcal PID interviewed, 120 cases, or 66 percent, were interviewed

within five days of a reported diagnosis. There were 143 new sexual contacts to gonococcal PID patients initiated during the stated time period. Sixty-four percent (92 contacts) were examined within seven days of interview.

After an absence of over two years, penicillinaise producing Neisseria gonorrhea (PPNG) returned to Virginia; the first case was reported in May, 1980. From May through June 1980, a total of five cases of PPNG were reported.

TUBERCULOSIS CONTROL

The Virginia Bureau of Tuberculosis Control has the official responsibility for the surveillance treatment of tuberculosis patients in this State. The Bureau assists local health departments and private physicians by providing specialized medical, x-ray, investigative, and statistical services. Bureau clinicians provide consultation regularly through 47 regional chest clinics Statewide.

In 1979, there were 747 new, active cases, giving a case rate of 14.2 per 100,000 population. This compares with 722 cases and a rate of 14.0 in 1978. The National case rate in 1979 was 12.6.

NEW, ACTIVE TUBERCULOSIS CASES BY
SOURCE OF DEFINITIVE DIAGNOSIS
VIRGINIA, 1978 AND 1979

Source of Definitive Diagnosis	Total	
	1978	1979
All Sources	722	747
Private Physicians	220	221
Blue Ridge Hospital	65	72
General Hospitals	202	227
Regional Chest Clinics	129	114
Veterans Administration Medical Centers - VA	64	63
Mental or Penal Hospitals	7	8
Death Certificates	11	5
Other	24	37

The nonwhite rate continues to be approximately six times the white rate -- 40.9 versus 7.7. Blacks alone account for 49.8 percent of the 747 new cases in 1979.

NEWLY REPORTED TUBERCULOSIS CASES BY RACE AND SEX
VIRGINIA, 1979

Race	Total	Male	Female
TOTAL	747	496	251
Black	372	255	117
White	327	213	114
Asian*	37	21	16
Other	11	7	4

*Asian total includes 19 Indo-Chinese Refugees.

The majority of cases (66.4 percent), continued to be in males. Of the new cases reported, 71.0 percent were for persons 45 years of age and older. Cases among children under 15 years of age increased from 28 in 1978 to 34 in 1979.

NEWLY REPORTED TUBERCULOSIS CASES BY AGE
VIRGINIA, 1979

Total	0-4	5-14	15-24	25-44	45-64	65+
747	20	14	38	145	255	275

Over one-third of the newly reported cases were for residents of six areas of the State: Norfolk (62 cases), Richmond city (59 cases), Newport News (42 cases), Fairfax county (38 cases), and Petersburg and Portsmouth (25 cases each). Data on total cases under supervision and newly reported cases by city or county of residence are given in Table 74, page 216.

CHRONIC DISEASE CONTROL

High Blood Pressure Control

As of January 1, 1980, taking a blood pressure measurement on all patients 18 years and older at every clinic visit became the clinical practice standard for every local health department across the State. Exceptions were granted for the patient who is seen frequently and who has had several normal readings during the past six months. To monitor adherence to this practice standard, a minimum of 50 patient charts per health district were audited for three quarters. Charts to be audited were pulled from the following clinics: 50 percent of the charts came from the general medical clinic or the family planning clinic; 20 percent from the VD clinics; 10 percent from dental clinics; and 20 percent from routine clinics like chest, x-ray, ENT, etc. Overall adherence to this practice standard has exceeded our goal of 90 percent.

PERCENT ADHERENCE TO HIGH BLOOD PRESSURE
PRACTICE STANDARD BY TYPE CLINIC
HIGH BLOOD PRESSURE CONTROL PROGRAM
FISCAL YEAR 1980

Audit	Total	Family Planning	General Medical	Venereal Disease	Chest X-Ray	Dental	Misc.
1st Audit	92	98	99	66	79	59	87
2nd Audit	90	98	99	64	87	70	87
3rd Audit	95	99	99	81	93	86	94

Part of the reason that dental and VD clinics have not achieved the 90 percent level is attributable to lack of training in blood pressure measurement and lack of blood pressure equipment. The program is addressing these deficiencies on an on-going basis.

During fiscal year 1980, approximately 395,000 adults were served by local health departments through the Maternal and Child Health, Family Planning, Chronic Disease, TB/Respiratory, VD, and Family Practice/General Medical Clinics. By analysis, 50.9 percent of the population screened by local health departments fell within the target high risk populations. Therefore, this passive screening

method was able to reach a sizable number of the at-risk population - over 200,000 patients.

A contract with the American Heart Association, Virginia Affiliate (AHAVA), requires the following screening measures: 35 percent will be screened in industrial settings; 25 percent screened will be minorities; 10 percent screened will be from rural areas; and a minimum of 20,000 people will be screened and receive appropriate follow-up.

PERSONS SCREENED FOR HIGH BLOOD PRESSURE
UNDER THE AHAVA CONTRACT BY RACE AND SEX

Quarter	Total	Race/Sex					
		White Male	White Female	Black Male	Black Female	Other Male	Other Female
TOTAL	27,700	8,750	11,674	3,065	4,049	89	73
Percent	100.0	31.6	42.1	11.1	14.6	0.3	0.3
1st	2,457	740	779	523	403	5	7
2nd	6,678	2,100	3,235	408	898	19	18
3rd	11,730	3,378	4,707	1,591	1,961	53	40
4th	6,835	2,532	2,953	543	787	12	8

As of June 30, 1980, 44 percent of the people screened were young males between the age 17 and 44 and minority populations.

Of the people screened through industrial sites, 37.4 percent were black, and of those screened in rural areas, 26.9 percent were black. Thirty-seven percent of all AHAVA's screenings were located in rural areas and 36 percent were conducted at industrial sites.

On April 7, 1980, seven local health districts were awarded contracts to establish local high blood pressure clinics. On July 5, 1980, six additional health districts were awarded contracts to bring the total number of health districts establishing local high blood pressure programs to 15, including the two demonstration sites. The recipients were selected on the basis of the following criteria: the proportion of the district that was designated as a Medically Underserved Area; the mortality rate from cardiovascular disease; the mortality rate from cerebrovascular disease; the projected number of hypertensives residing within the district based on the program's computer projections; and the minority population located within the district.

For this organizational year of start-up activities, the following objectives were chosen for the local high blood pressure projects: to identify 100 percent of the uncontrolled hypertensives who utilize the local health department as a source of care; to establish a local high blood pressure follow-up clinic where aware hypertensives can have their blood pressure and their compliance monitored; and, to increase the awareness of the risks of uncontrolled blood pressure through local community activities such as public service announcements/articles, targeted screening in local industry or black churches and classes on blood pressure measurement and equipment calibration.

On April 21-22, 1980, a two day conference on "High Blood Pressure Control: An Interdisciplinary Challenge" was held in Williamsburg, Virginia. Over 140 physicians, nurses, pharmacists, dentists, industrial nurses, etc., attended the conference that was co-sponsored by the VCU - Medical College of Virginia and this Program. The potential for annual or semi-annual conferences is being investigated.

Cervical Cancer Program

Cervical and/or uterine cancer is one of the most common sites for cancer in women of all ages. During the calendar year 1979, approximately 1,100 women in Virginia developed uterine cancer and 250 women died from the disease. Death from uterine cancer could be drastically reduced if every adult woman including sexually active teenagers had a yearly gynecologic exam including a pap smear.

The pap smear test is offered in local health department family planning, maternity, gynecology and general medical clinics. In 1979, the State funded program administered a contractual arrangement with one laboratory to process pap smears at a rate of $1.52. The Program funded the processing of 127,656 pap smears at a total cost of $203,471.01. To insure quality performance of the laboratory, a 10 percent random selection of the total cases was sent to another laboratory for re-examination.

Plans are continuing to expand services to local health departments to provide definitive diagnostic tests such as colposcopy directed biopsies for patients with abnormal pap smear reports. Colposcopy clinics are especially needed in areas where this service is not available or where patients must travel long distances in order to obtain this service. The factor of travel alone is the greatest hinderance for patient attendance and follow-up.

Through successive yearly pap tests, fewer and fewer women are identified with carcinoma-in-situ. Also with periodic testing, problems are treated early before they can develop into a moderate or severe dysplasia which are the precursors of cancer.

PAP SMEARS BY CLASSIFICATION
CERVICAL CANCER PROGRAM, 1979

Total	127,656
Moderate/severe dysplasia	1,576
Positive (carcinoma-in-situ)	109

Virginia Tumor Registry

During 1979, there were 28 hospitals reporting data to the Virginia Tumor Registry. These institutions, which accounted for approximately 42 percent of the acute, short-term hospital beds in the State, reported a total of 10,366 cases, 9,600 of which were newly diagnosed.

"1979 Cancer Facts and Figures," published by the American Cancer Society projected 16,000 new cancer cases for Virginia for the year (excluding non-melanotic skin cancers and in-situ of cervix). The 9,600 newly diagnosed cases reported for 1979 would account for 60 percent coverage of the projected incidence. Cases reported to the Registry since it was created in 1970 total 52,000.

Of the 10,366 cases reported in 1979, 5,278, or 51 percent, were in females and 5,088, or 49 percent, were in males. Eighty percent of the newly diagnosed cancer cases were in persons 50 years of age or over, with 20 percent in the 50-59 age group and 29 percent in the 60-69 age group.

CASES REPORTED TO TUMOR REGISTRY FROM
PARTICIPATING HOSPITALS BY PRIMARY SITE
VIRGINIA, 1979

Primary Site	Total Number	Percent Distribution
ALL SITES	10,366	100
Lung and Bronchus	1,735	17
Breast	1,357	13
Colon and Rectum	1,262	12
Uterus	987	10
Prostate	910	9
Lymphoma and Leukemia	675	6
Other Digestive	430	4
Bladder	417	4
Ovary	220	2
Stomach	175	2
All Other Sites	2,198	21

TABLE 67 - ACTIVITIES FOR THE BUREAU OF SHELLFISH SANITATION, VIRGINIA, FISCAL YEARS 1979 AND 1980

Activity	Fiscal Year 1979	Fiscal Year 1980
SHELLFISH		
Certificates Issued to Dealers to:		
Operate oyster and clam shucking plants	163	208
Operate plants for repacking shucked shellfish	74	76
Ship shellstock	81	78
Reship shellfish packed by certified dealers	3	6
Certificates Revoked Because of Deficiencies	-	-
Administrative Hearing Relative to Continued Certification	-	-
Inspections		
Shucking and repacking plants	2,549	2,139
Shellstock and reshipping plants	579	397
Mechanical shucking plants	37	61
Trucks	336	311
Boats	157	163
Bacteriological Samples		
Water supply in plants	1,465	1,288
Shellfish collected at plants	2,004	2,006
Swab and rinse tests to determine effectiveness of sterilizing procedures	211	13
Water overlying or near growing areas	24,348	23,146
Shellfish taken from growing area	139	177
Mechanical oyster shucking process	11	19
Shellfish collected in transit	58	74
Drinking water samples examined for other agencies	612	1,436
Depuration: Process water	92	316
Shellstock (clams)	47	171
Other	24	118
Samples Collected for Radiological Examination		
Shellfish, water overlying and bottom sediment from growing areas	103	88
Samples Collected for Pesticide Examination		
Shellfish and water overlying growing areas	36	36
Samples Collected for Heavy Metals Examination		
Shellfish and water overlying growing areas	113	113
Reports Made to State of Origin on Results of Bacteriological Examination of Out-of-State Shellstock	501	359
Permits for Direct Marketing of Shellfish After Having Been Transplanted from Condemned to Approved Areas		
Permits issued	104	165
Oysters, bushels	8,959	25,608
Clams, count	13,221,939	12,863,673
Permits Issued to Dealers to Float Shellfish in Approved Waters	28	26
Sanitary Survey of Growing Areas		
Shoreline		
Areas surveyed	19	16
Surveyed areas reinvestigated	10	17
Homes, business places, etc. inspected	16,813	10,106
Bacteriological and hydrographic areas examined	110	111
Classification of Growing Areas		
Condemned for shellfishing	-	1
Total acres (approximate)	-	209
Released from condemnation	-	-
Total acres (approximate)	-	-
Condemnation revised	6	3
Total acres condemned (approximate)	961	588
Total acres released (approximate)	149	107
Conditionally approved	-	1
Total acres (approximate)	-	1,551
Seasonally condemned (including marinas)	8	-
Total acres (approximate)	667	-
Shellfish Environmental Impact Evaluations	473	678
CRAB MEAT		
Certificates Issued to Dealers to Operate Picking and Packing Plants	50	48
Certificates Revoked Because of Deficiencies	-	-
Administrative Hearing Relative to Continued Certification	-	-
Inspections at Plants	488	822
Bacteriological Samples		
Water supply in plants	355	382
Crab meat collected at plants	1,226	1,248
Swab and rinse tests to determine effectiveness of sterilizing procedures	66	19
Mechanical crab meat picking process	18	12
Other	-	81
KEPONE RELATED ACTIVITIES		
Shellfish and Crab Samples Collected and/or Prepared for Kepone Analysis	1,351	563
Sediment Samples Collected	-	-

TABLE 68
VISITS BY ENVIRONMENTAL HEALTH SANITARIANS ACCORDING TO TYPE OF ESTABLISHMENT
VIRGINIA, CALENDAR YEARS 1978 AND 1979

Type of Establishment	Visits		Difference	Percent Change
	1978	1979		
ALL ESTABLISHMENTS	671,699	629,753	-41,946	-6.2
Food	102,566	99,323	-3,243	-3.2
Service Station	6,523	5,387	-1,136	-17.4
Trailer Camp	11,625	11,460	-165	-1.4
Itinerant Trailer	500	499	-1	-0.2
Ice Cream and Pasteurization Plant	2,031	1,899	-132	-6.5
Counter Freezer	14,285	14,226	-59	-0.4
Milk Distribution Station	382	332	-50	-13.1
Milk Delivery Truck	710	721	11	1.5
Summer Camp	735	606	-129	-17.6
Child Care Institution	3,688	3,653	-35	-0.9
School - Private and Public	14,321	12,689	-1,632	-11.4
Nursing Home	550	517	-33	-6.0
Home for the Aged	1,408	1,345	-63	-4.5
Swimming Pool or Beach	7,337	7,081	-256	-3.5
Dwelling Unit - Dwelling	97,232	90,471	-6,761	-7.0
Individual Homesite	280,167	261,017	-19,150	-6.8
Subdivision	8,674	6,506	-2,168	-25.0
Commercial Establishment (not shown elsewhere)	25,612	25,639	27	0.1
Migrant Labor Camp	1,884	1,609	-275	-14.6
Barber and Hairdressing Establishments	15,414	13,444	-1,970	-12.8
Tourist Establishment	412	418	6	1.5
Campgrounds	701	756	55	7.8
All Other Establishments	74,942	70,155	-4,787	-6.4

TABLE 69
SUMMARY OF SERVICES PERFORMED BY THE ENVIRONMENTAL HEALTH SANITARIAN IN ENVIRONMENTAL PROGRAMS
VIRGINIA, CALENDAR YEAR 1979

Type of Service	Total	Sewage	Water	Food	Milk and Counter Freezers	Pest Control	Solid Waste	Weeds	Housing	Rad. Health	Air Pollution	Swimming Facilities	Rabies	Plumbing	All Others
TOTAL	847,756	229,048	91,015	127,076	28,127	33,236	77,945	19,686	95,097	1,978	7,31[illegible]	9,532	30,351	4,534	92,820
Approve	30,804	25,844	[illegible],960												
Quarantine	7,162												7,162		
Units in Violation	64,100					6,503	19,969	5,411	31,321					896	
Units not in Violation	[illegible]					4,267	10,268	1,937	26,750					567	
Units Corrected	47,760	4,648				6,333	16,953	3,871	15,171					784	
Equipment Testing	4,575				3,653					922					
Complaint Investigation	72,159	10,373	1,155	3,051	139	11,838	3,793	5,177	12,774		273	287	6,015	1,284	
Lot Rejection	4,513	4,513													
Permit Issued	53,909	35,288	5,386	12,486	183							566			
Permit Revoked	403			403											
Sample	57,705	1,122	38,986		10,872						4,836	1,463	426		
Soil Study	58,371	58,371													
Other	402,506	88,889	40,528	111,136	13,280	4,295	10,962	3,290	9,081	1,056	2,202	7,216	16,748	1,003	92,820

TABLE 70
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1979

Planning District/ City or County	Amebiasis	Aseptic Meningitis	Brucellosis	Chickenpox	Diphtheria	Hepatitis			Malaria	Measles (Rubeola)	Meningococcal Infections	Mumps	Pertussis (Whooping Cough)	Rubella (German Measles)	Salmonellosis	Shigellosis	Tetanus	Trichinosis	Tularemia	Typhoid Fever	Typhus Fever (Rocky Mountain Spotted Fever)
						Type A	Type B	Type Unspecified													
STATE OF VIRGINIA	49	266	17	963	1	271	449	218	30	288	87	105	16	208	1,151	274	3	6	2	6	90
District 1		9		12		2	2				2				19	5					3
Lee							1								3						1
Scott		2				2	1				1				3						1
Wise		7		12							1				13	5					1
Norton*																					
District 2		2		1		9		2		1				1	4						1
Buchanan				1		1															
Dickenson		1				1								1	2						
Russell						2									1						
Tazewell		1				5		2		1					1						1
District 3		7		5		9	4	6		18	4				26	18					1
Bland											1										
Carroll		1					1			18					1	1					
Grayson		2						1							2						
Smyth		2				8		2			2				9	16					
Washington		2		5		1	2	1			1				11	1					1
Wythe							1	2							3						
Bristol*																					
Galax*																					
District 4		1	1			5	9	2		193	3	1		78	7						3
Floyd		1				1	1			9					1						
Giles						2				68	1				1						1
Montgomery			1			1	1	1		115	2	1		77	2						
Pulaski						1	7	1		1				1	3						2
Radford*																					
District 5	2	14		58		15	26	10	1	4	3	10		15	19	34					3
Alleghany				2		3	1	2		1	1	4		2							
Botetourt		1		1			1														1
Craig						1															
Roanoke		5		4		6	3	1	1	3				7	3	12					1
Clifton Forge*																					
Covington*																					
Roanoke City	2	8		51		5	21	7			2	6		6	16	22					1
Salem*																					
District 6	1	2		2		5	3			1	4	4		17	37	5	1		2		1
Augusta						3	3			1	1	1		2	13		1				1
Bath		1									2				1						
Highland																					
Rockbridge	1			2		1						1		2	1						
Rockingham		1				1					1	2		13	22	5			2		
Buena Vista*																					
Harrisonburg*																					
Lexington*																					
Staunton*																					
Waynesboro*																					
District 7		19				4	7	3	1	1	1		1	1	53	18		4			9
Clarke		3									1					1					
Frederick		11				1	6	1					1	1	22	10		2			2
Page		2						1	1						7	1					6
Shenandoah		2				1									13			2			
Warren		1				2	1	1		1					11	6					1
Winchester*																					
District 8	15	24		155	1	86	110	47	23	12	5	14	5	6	200	39				3	4
Arlington	4	4		1		6	19	8	7	2	3	1			26	10					1
Fairfax	11	16		16	1	57	51	25	13	8	2	5	5	2	94	16				3	1
Loudoun				1		1	1		2						7						1
Prince William		4		6		13	18	9		1		3		4	41	3					1
Alexandria				131		9	21	5	1	1		5			32	10					
Fairfax City*																					
Falls Church*																					
Manassas*																					
Manassas Park*																					
District 9	1	9		22		5	3	5			1			1	11	1	1				4
Culpeper		3				1		1			1				5						
Fauquier	1	1		21		4	3	1							2	1	1				
Madison				1																	
Orange		5						2						1	4						4
Rappahannock								1													
District 10		16		27		6	9	3			2	5		3	39	23					4
Albemarle		3				2		1							4	5					3
Fluvanna		1		2		1									1	6					
Greene							2				1				1						
Louisa		2		1			1				1	3			7	1					1
Nelson								1							4	2					
Charlottesville		10		24		3	6	1				2		3	22	59					

*Included with surrounding county.

(continued)

TABLE 70
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1979 (continued)

Planning District/ City or County	Amebiasis	Aseptic Meningitis	Brucellosis	Chickenpox	Diphtheria	Hepatitis Type A	Hepatitis Type B	Hepatitis Type Unspecified	Malaria	Measles (Rubeola)	Meningococcal Infections	Mumps	Pertussis (Whooping Cough)	Rubella (German Measles)	Salmonellosis	Shigellosis	Tetanus	Trichinosis	Tularemia	Typhoid Fever	Typhus Fever (Rocky Mountain Spotted Fever)
STATE OF VIRGINIA	49	266	17	963	1	271	449	218	30	288	87	105	16	208	1,151	274	3	6	2	6	90
District 11	16	18		7		7	12	8		1	5	2	3	5	28	1		2		1	7
Amherst	16	1				2		1				1	2		1						2
Appomattox				2		1									4						2
Bedford				1			1	2		1					2					1	1
Campbell		6		1			2	3			5		1	1	5						1
Bedford City*																					
Lynchburg		11		3		4	9	2				1		4	16	1		2			1
District 12		7		20		6	1	10	1	2	12	6	1	22	34	5					7
Franklin		4		1							1				6						
Henry				1		3		3	1		2	3	1	2	13	2					2
Patrick								1													3
Pittsylvania		1		5		2		3		2	2	1		20	3	2					1
Danville		2		9		1	1	3			7	2			12	1					1
Martinsville*																					
District 13		10		6		2	6	2			2	1			10						2
Brunswick							2								2						
Halifax		8				2	3	1			2				5						1
Mecklenburg		2		6			1	1				1			3						1
South Boston*																					
District 14			1			1	2	5		1	2	7			10						6
Amelia										1					1						1
Buckingham							1				1	6									2
Charlotte																					3
Cumberland															1						
Lunenburg							1	2							1						
Nottoway			1			1		3							4						
Prince Edward											1	1			3						
District 15	1	78		94		38	134	35	1	7	10	26		6	220	10					7
Charles City Co.		1		3																	
Chesterfield	1	14		4		7	8	8		2		1			11						2
Goochland				1		1	4	2							1						
Hanover		2		3			5	1							8	2					
Henrico		23		5		3	20	6		1	4	5		2	12	2					
New Kent				2			2	1							1						2
Powhatan						2									1						
Richmond City		38		76		25	95	17	1	4	6	20		4	186	6					3
District 16	1	3		4		2	3				2	2		1	35	1					6
Caroline		1				1									1	1					4
King George				2											1						
Spotsylvania		1				1								1	1						
Stafford											1	1			8						
Fredericksburg	1	1		2			3				1	1			24						2
District 17				7			1	1						1	5						
Lancaster				7				1							2						
Northumberland															1						
Richmond							1														
Westmoreland														1	2						
District 18				3		2	1	3			2			1	13						1
Essex								1							2						1
Gloucester							1	1							3						
King and Queen								1			1				1						
King William				2							1				3						
Mathews														1	3						
Middlesex				1		2									1						
District 19	6	3		18		12	10	7		18	2	2	4	2	50	2	1				4
Dinwiddie	1					6	1	1							7						
Greensville						1	1	2			1				4						3
Prince George						3	3	1		17				1	4		1				
Surry		1					1					1				1					
Sussex															3						
Colonial Heights*																					
Emporia*																					
Hopewell		2		11			1	1		1					1						
Petersburg	5			7		2	3	2			1	1	4	1	31	1					1
District 20	5	39	15	444		41	75	40	2	21	16	13		33	188	38				2	6
Isle of Wight		1	15	6			1			1					2	3					
Southampton		1		2		1	3	1						1	9						1
Chesapeake	1	6		2		6	8	4		1	1			1	12	4					1
Franklin City*																					
Norfolk	1	20		45		17	26	7	2	6	6	5		20	96	23				2	
Portsmouth		2		336		9	17	2				3			31	5					
Suffolk	1			10			3	1		3		1			11	1					1
Virginia Beach	2	9		43		5	17	25		10	9	4		11	27	2					3

*Included with surrounding county.

(continued)

TABLE 70
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1979 (continued)

Planning District/ City or County	Amebiasis	Aseptic Meningitis	Brucellosis	Chickenpox	Diphtheria	Hepatitis			Malaria	Measles (Rubeola)	Meningococcal Infections	Mumps	Pertussis (Whooping Cough)	Rubella (German Measles)	Salmonellosis	Shigellosis	Tetanus	Trichinosis	Tularemia	Typhoid Fever	Typhus Fever (Rocky Mountain Spotted Fever)
						Type A	Type B	Type Unspecified													
STATE OF VIRGINIA	49	206	17	963	1	271	449	218	30	288	87	105	16	208	1,151	274	3	6	2	6	90
District 21	1	5		78		12	26	24	1	2	8	12	1	8	88	20					6
James City Co.				5		2	2	2				1		1	14						
York	1			2			1	1				1			4	1					2
Hampton		2		34		3	9	15	1	1	2	6	1	6	30	7					3
Newport News		3		37		7	14	6		1	6	4		1	40	12					1
Poquoson*																					
Williamsburg*																					
District 22						2	5	5		6	1		1	7	55	4					5
Accomack						2	2	5		5			1	5	30	3					2
Northampton							3			1	1			2	25	1					3

*Included with surrounding county.

TABLE 71
REPORTED CASES OF SPECIFIED NOTIFIABLE DISEASES
VIRGINIA, AVERAGE 1975-1977, 1978 and 1979

Disease	Average 1975-1979	1978	1979
Preventable by Immunization			
Congenital Rubella Syndrome		1	
Diphtheria			1
Measles (Rubeola)	1,356	2,837	288
Mumps	302	196	105
Poliomyelitis		1	
Pertussis	18	18	16
Rubella	323	247	208
Tetanus	1	1	3
Central Nervous System Diseases			
Aseptic Meningitis	166	193	266
Encephalitis, primary infectious	27	34	28
Encephalitis, post infectious	8	10	15
Meningococcal Infections	53	73	87
Other Bacterial Meningitis	121	122	172
Gastroenteric Diseases			
Hepatitis A (Infectious)	329	272	271
Hepatitis B (Serum)	302	331	449
Hepatitis, unspecified viral	189	166	218
Salmonellosis	819	990	1,151
Shigellosis	169	142	274
Typhoid Fever	7	4	6
Zoonoses			
Brucellosis	28	6	17
Trichinosis	3		6
Tularemia	4	5	2
Rocky Mountain spotted fever	114	111	90
Rabies in animals	42	14	20
Miscellaneous Diseases			
Influenza	5,904	5,011	410
Malaria	19	23	30
Reye's Syndrome	11	7	20

TABLE 72
REPORTED CASES AND DEATHS OF CERTAIN COMMUNICABLE DISEASES
WITH CASE RATES PER 100,000 ESTIMATED POPULATION
VIRGINIA, 1970-1979

Year	AMEBIASIS			BRUCELLOSIS			CHICKENPOX		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1970	95	2.0	0	26	0.6	1	N.A.	N.A.	1
1971	172	3.6	0	17	0.4	0	N.A.	N.A.	1
1972	191	4.0	0	30	0.6	0	1,020	21.4	2
1973	87	1.8	0	10	0.2	0	1,367	28.4	0
1974	179	3.6	0	27	0.6	0	669	13.6	2
1975	99	2.0	0	52	1.0	0	1,155	23.3	3
1976	97	1.9	0	28	0.6	0	1,146	22.8	3
1977	73	1.4	1	37	0.7	0	784	15.3	0
1978	35	0.7	0	6	0.1	0	1,076	20.9	5
1979	49	0.9	0	17	0.3	0	963	18.3	2

Year	DIPHTHERIA			HEPATITIS**			RUBELLA		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1970	1	*	0	1,516	32.5	N.A.	782	16.8	0
1971	0	0.0	0	1,639	34.8	N.A.	215	4.6	0
1972	0	0.0	0	1,185	24.9	N.A.	67	1.4	0
1973	1	*	0	736	15.3	N.A.	547	11.4	0
1974	0	0.0	0	823	16.8	N.A.	67	1.4	0
1975	0	0.0	0	845	17.0	N.A.	326	6.6	0
1976	0	0.0	0	743	14.8	N.A.	247	4.9	0
1977	0	0.0	0	803	15.6	N.A.	585	11.4	2
1978	0	0.0	0	769	14.9	N.A.	247	4.8	0
1979	1	*	0	938	17.8	N.A.	208	4.0	0

Year	RUBEOLA			MENINGOCOCCAL INFECTIONS			MENINGITIS (ASEPTIC)		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1970	2,335	50.0	2	50	1.1	10	235	5.0	N.A.
1971	1,628	34.5	4	51	1.1	5	69	1.5	N.A.
1972	73	1.5	2	45	0.9	8	208	4.4	N.A.
1973	428	8.9	1	49	1.0	7	162	3.4	N.A.
1974	36	0.7	0	43	0.9	7	63	1.3	N.A.
1975	35	0.7	0	24	0.5	6	116	2.3	N.A.
1976	844	16.8	0	44	0.9	5	53	1.1	N.A.
1977	2,774	54.0	0	39	0.8	5	202	3.9	N.A.
1978	2,837	55.1	1	73	1.4	9	193	3.7	N.A.
1979	288	5.5	0	87	1.7	15	266	5.1	N.A.

N.A. = Not available

* Less than 0.05

**Cases include serum hepatitis

TABLE 72
REPORTED CASES AND DEATHS OF CERTAIN COMMUNICABLE DISEASES
WITH CASE RATES PER 100,000 ESTIMATED POPULATION
VIRGINIA, 1970-1979

Year	MUMPS			PERTUSSIS			POLIOMYELITIS		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1970	2,271	48.7	1	163	3.5	0	0	0.0	0
1971	1,073	22.8	0	61	1.3	0	0	0.0	0
1972	1,319	27.7	0	38	0.8	0	1	*	0
1973	799	16.6	0	15	0.3	0	1	*	3
1974	822	16.7	0	38	0.8	0	1	*	0
1975	854	17.2	1	17	0.3	0	0	0.0	2
1976	227	4.5	0	12	0.2	0	0	0.0	0
1977	129	2.5	0	25	0.5	1	0	0.0	1
1978	196	3.8	0	18	0.3	0	1	*	3
1979	105	2.0	0	16	0.3	0	0	0.0	0

Year	ROCKY MOUNTAIN SPOTTED FEVER			SALMONELLOSIS			SHIGELLOSIS		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1970	58	1.2	1	762	16.3	0	77	1.7	1
1971	42	0.9	5	910	19.3	3	179	3.8	0
1972	44	0.9	2	938	19.7	2	450	9.4	0
1973	61	1.3	5	1,009	21.0	3	119	2.5	0
1974	124	2.5	3	546	11.1	1	213	4.3	0
1975	115	2.3	2	584	11.8	0	225	4.5	0
1976	100	2.0	4	559	11.1	2	127	2.5	0
1977	154	3.0	6	809	15.8	4	78	1.5	0
1978	111	2.2	4	990	19.2	3	142	2.8	0
1979	90	1.7	2	1,151	21.9	3	274	5.2	0

Year	TETANUS			TULAREMIA			TYPHOID FEVER		
	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths	Cases	Case Rates	Deaths
1970	3	0.1	3	16	0.3	0	9	0.2	0
1971	4	0.1	2	9	0.2	0	15	0.3	0
1972	4	0.1	1	18	0.4	1	9	0.2	0
1973	4	0.1	3	6	0.1	0	5	0.1	0
1974	4	0.1	3	4	0.1	0	2	*	0
1975	2	*	0	8	0.2	0	7	0.1	1
1976	1	*	0	3	0.1	0	6	0.1	0
1977	1	*	0	3	0.1	0	10	0.2	0
1978	1	*	1	5	0.1	0	4	0.1	0
1979	3	0.1	0	2	*	0	6	0.1	0

N.A. = Not Available

* Less than 0.05

TABLE 73
REPORTED CASES OF VENEREAL DISEASE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1979

Planning District/ City or County	Total Diseases	Total Syphilis	Primary and Secondary	Early Latent	Other Syphilis	Gonorrhea	Other Diseases
STATE OF VIRGINIA	24,566	1,529	492	426	611	23,032	5
District 1	92	5			5	87	
Lee	22					22	
Scott	22	1			1	21	
Wise	41	4			4	37	
Norton	7					7	
District 2	47	3			3	44	
Buchanan	14					14	
Dickenson	9					9	
Russell	6	1			1	5	
Tazewell	18	2			2	16	
District 3	222	10	3	3	4	212	
Bland	2					2	
Carroll	6	2	1	1		4	
Grayson	3	1			1	2	
Smyth	55	4	2		2	51	
Washington	38	1			1	37	
Wythe	35	1		1		34	
Bristol	78	1		1		77	
Galax	5					5	
District 4	100	3	1	2		97	
Floyd	4					4	
Giles	11					11	
Montgomery	23	2	1	1		21	
Pulaski	40	1		1		39	
Radford	22					22	
District 5	875	58	19	22	17	817	
Alleghany	1					1	
Botetourt	20	3	1	1	1	17	
Craig	2					2	
Roanoke	43	3	1	1	1	40	
Clifton Forge	4					4	
Covington	8	1			1	7	
Roanoke City	764	51	17	20	14	713	
Salem	33					33	
District 6	218	13	3	3	7	205	
Augusta	38					38	
Bath	11	2		1	1	9	
Highland	2					2	
Rockbridge	14	1			1	13	
Rockingham	25	1	1			24	
Buena Vista	12					12	
Harrisonburg	24					24	
Lexington	7	1			1	6	
Staunton	59	6	2	2	2	53	
Waynesboro	26	2			2	24	
District 7	164	8	2	2	4	156	
Clarke	21	4	1	1	2	17	
Frederick	23					23	
Page	15	1	1			14	
Shenandoah	30					30	
Warren	21					21	
Winchester	54	3		1	2	51	
District 8	2,804	300	76	85	139	2,504	
Arlington	568	93	27	29	37	475	
Fairfax	499	57	11	16	30	442	
Loudoun	146	3		1	2	143	
Prince William	96	12	2	2	8	84	
Alexandria	1,160	93	30	35	28	1,067	
Fairfax City	87	21	5	2	14	66	
Falls Church	170	19	1		18	151	
Manassas	73	2			2	71	
Manassas Park	5					5	
District 9	142	5			5	137	
Culpeper	50	3			3	47	
Fauquier	45	1			1	44	
Madison	6					6	
Orange	39	1			1	38	
Rappahannock	2					2	
District 10	454	7	2	1	4	447	
Albemarle	60					60	
Fluvanna	19					19	
Greene	20					20	
Louisa	32					32	
Nelson	24					24	
Charlottesville	299	7	2	1	4	292	
District 11	706	18	2	5	11	687	1
Amherst	58	1			1	56	1
Appomattox	26	1		1		25	
Bedford	38	2			2	36	
Campbell	98	1			1	97	
Bedford City	29	1			1	28	
Lynchburg	457	12	2	4	6	445	

(continued)

TABLE 73
REPORTED CASES OF VENEREAL DISEASE, BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE
VIRGINIA, 1979 (continued)

Planning District/ City or County	Total Diseases	Total Syphilis	Primary and Secondary	Early Latent	Other Syphilis	Gonorrhea	Other Diseases
STATE OF VIRGINIA	24,566	1,529	492	426	611	23,032	5
District 12	803	65	20	24	21	738	
Franklin	52	3	1		2	49	
Henry	166	9	4	3	2	157	
Patrick	8	3	1		2	5	
Pittsylvania	232	14	7	5	2	218	
Danville	258	30	5	15	10	228	
Martinsville	87	6	2	1	3	81	
District 13	299	36	9	13	14	263	
Brunswick	93	16	4	6	6	77	
Halifax	63	8	4	2	2	55	
Mecklenburg	101	12	1	5	6	89	
South Boston	42					42	
District 14	271	16	3	7	6	255	
Amelia	36					36	
Buckingham	59					59	
Charlotte	27	2		2		25	
Cumberland	12	1			1	11	
Lunenburg	20	1		1		19	
Nottoway	53	5		1	4	48	
Prince Edward	64	7	3	3	1	57	
District 15	4,537	317	100	117	100	4,220	
Charles City Co.	39					39	
Chesterfield	154	10	3	5	2	144	
Goochland	51	5		2	3	46	
Hanover	120	8	1	2	5	112	
Henrico	311	20	9	5	6	291	
New Kent	25	1			1	24	
Powhatan	43	5		1	4	38	
Richmond City	3,794	268	87	102	79	3,526	
District 16	161	17	11	1	5	144	
Caroline	52	12	8	1	3	40	
King George	11	1			1	10	
Spotsylvania	30	1	1			29	
Stafford	20	1			1	19	
Fredericksburg	48	2	2			46	
District 17	209	14	1	2	11	195	
Lancaster	68	1			1	67	
Northumberland	46	3			3	43	
Richmond	27	4	1		3	23	
Westmoreland	68	6		2	4	62	
District 18	147	9	1	5	3	138	
Essex	21					21	
Gloucester	53	4	1	3		49	
King and Queen	24					24	
King William	25	1		1		24	
Mathews	7	2		1	1	5	
Middlesex	17	2			2	15	
District 19	1,088	54	7	13	34	1,034	
Dinwiddie	65	2	1		1	63	
Greensville	48	5	1		4	43	
Prince George	17	3			3	14	
Surry	53	1	1			52	
Sussex	62	5		4	1	57	
Colonial Heights	23					23	
Emporia	28	1			1	27	
Hopewell	47	9	1	4	4	38	
Petersburg	745	28	3	5	20	717	
District 20	8,414	460	200	102	158	7,950	4
Isle of Wight	156	8	4	1	3	148	
Southampton	163	9	1	2	6	154	
Chesapeake	701	44	16	8	20	657	
Franklin City	102					102	
Norfolk	4,047	240	125	51	64	3,803	4
Portsmouth	1,989	88	40	28	20	1,901	
Suffolk	567	21	5	5	11	546	
Virginia Beach	689	50	9	7	34	639	
District 21	2,511	96	31	15	50	2,415	
James City Co.	28	1			1	27	
York	69	6	4	2		63	
Hampton	830	20	4	4	12	810	
Newport News	1,405	52	21	6	25	1,353	
Poquoson	5					5	
Williamsburg	174	17	2	3	12	157	
District 22	302	15	1	4	10	287	
Accomack	203	14	1	4	9	189	
Northampton	99	1			1	98	

TABLE 74 - TUBERCULOSIS CASES UNDER SUPERVISION AND NEWLY REPORTED CASES WITH RATES PER 100,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979

Planning District/ City or County	Total Cases Under Supervision	Newly Reported Cases					
		Total		White		Nonwhite	
		Number	Rate	Number	Rate	Number	Rate
STATE OF VIRGINIA	960	747	14.2	327	7.7	420	40.9
District 1	17	10	9.8	10	10.3		
Lee	7	4	15.1	4	13.3		
Scott	5	2	7.9	2	8.1		
Wise	5	4	8.0	4	9.4		
Norton*							
District 2	15	12	8.8	12	9.1		
Buchanan	1	3	8.2	3	8.5		
Dickenson	3	1	4.8	1	5.0		
Russell	5	4	13.9	4	14.3		
Tazewell	6	4	7.9	4	8.3		
District 3	13	18	10.4	16	9.5	2	35.0
Bland							
Carroll		1	4.1	1	4.2		
Grayson							
Smyth	4	3	9.1	3	9.3		
Washington	5	7	16.5	7	16.8		
Wythe	4	6	24.4	5	21.2	1	100.3
Bristol		1	4.8			1	65.1
Galax							
District 4	10	12	8.9	10	7.8	2	27.5
Floyd	2						
Giles	1	2	12.0	2	12.2		
Montgomery	2	4	6.5	4	6.8		
Pulaski	3	4	11.9	2	6.4	2	75.4
Radford	2	2	16.1	2	17.3		
District 5	41	31	12.7	21	9.6	10	39.9
Alleghany	1	1	7.7	1	8.1		
Botetourt	3	4	18.1	3	14.8	1	52.5
Craig	1	1	24.4	1	24.3		
Roanoke	6	8	8.8	7	8.0	1	31.4
Clifton Forge	1	1	20.8			1	122.5
Covington	1						
Roanoke City	28	16	16.0	9	10.9	7	40.3
Salem*							
District 6	25	22	10.6	21	10.7	1	8.7
Augusta	10	7	13.2	7	13.8		
Bath	1	3	47.6	3	53.9		
Highland							
Rockbridge	4	1	4.1	1	4.5		
Rockingham	4	5	8.9	5	9.1		
Buena Vista	1	2	29.9	2	30.9		
Harrisonburg	3	2	10.0	1	5.4	1	66.1
Lexington*							
Staunton	1	1	4.6	1	5.2		
Waynesboro	1	1	6.1	1	6.6		
District 7	23	19	14.6	17	13.8	2	32.1
Clarke	6	4	43.0	2	25.1	2	155.0
Frederick	3	4	13.7	4	14.0		
Page	2	2	10.2	2	10.6		
Shenandoah	7	6	21.8	6	22.3		
Warren	2	1	4.9	1	5.1		
Winchester	3	2	8.4	2	9.2		
District 8	157	92	8.6	41	4.2	51	49.8
Arlington	41	15	9.9	2	1.5	13	82.5
Fairfax	60	38	6.8	24	4.6	14	34.2
Loudoun	5	2	3.5	1	2.0	1	14.4
Prince William	21	16	9.8	7	4.6	9	77.0
Alexandria	28	19	18.1	7	8.8	12	47.5
Fairfax City	2	1	4.8			1	119.2
Falls Church		1	11.0			1	100.4
Manassas*							
Manassas Park*							
District 9	18	13	14.8	9	13.2	4	20.7
Culpeper	4	1	4.4	1	5.8		
Fauquier	8	5	16.0	2	8.3	3	42.5
Madison	1	3	29.1	3	35.9		
Orange	5	4	22.7	3	22.5	1	24.5
Rappahannock							
District 10	18	13	9.2	5	4.2	8	27.6
Albemarle	5	2	3.8			2	27.7
Fluvanna	2	2	19.2			2	59.0
Greene							
Louisa	3	2	11.0			2	31.4
Nelson	3	3	25.2	2	24.2	1	27.7
Charlottesville	5	4	10.0	3	9.2	1	13.4

* Included with surrounding county.

TABLE 74 - TUBERCULOSIS CASES UNDER SUPERVISION AND NEWLY REPORTED CASES WITH RATES PER 100,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Total Cases Under Supervision	Newly Reported Cases					
		Total		White		Nonwhite	
		Number	Rate	Number	Rate	Number	Rate
STATE OF VIRGINIA	960	747	14.2	327	7.7	420	40.9
District 11	11	8	4.2	4	2.6	4	11.3
Amherst	2	2	7.1	1	4.4	1	19.3
Appomattox	1	1	7.8	1	10.9		
Bedford	2						
Campbell	3	2	4.4	1	2.5	1	16.0
Bedford City*							
Lynchburg	3	3	4.6	1	2.0	2	12.3
District 12	23	18	7.7	8	4.6	10	16.4
Franklin	1	1	3.0	1	3.5		
Henry	4	4	7.1	3	6.9	1	7.4
Patrick		1	6.2			1	72.3
Pittsylvania	6	3	4.6	1	2.4	2	8.7
Danville	7	5	11.4	2	6.4	3	23.9
Martinsville	5	4	22.0	1	7.9	3	54.0
District 13	11	10	11.9	3	6.4	7	18.8
Brunswick	4	5	31.3	2	30.7	3	31.5
Halifax	4	2	5.3	1	4.5	1	6.6
Mecklenburg	3	3	10.0			3	23.0
South Boston*							
District 14	21	18	21.4	7	14.1	11	32.0
Amelia	3	3	33.7	2	40.6	1	25.2
Buckingham	3	3	26.1			3	60.6
Charlotte	3	1	7.9			1	18.2
Cumberland	1						
Lunenburg	3	3	23.6	1	14.9	2	33.3
Nottoway	7	5	35.0	3	33.1	2	38.4
Prince Edward	1	3	18.0	1	9.2	2	35.0
District 15	152	110	17.8	44	9.5	66	42.7
Charles City Co.	1	1	14.9			1	17.6
Chesterfield	19	15	11.4	12	10.5	3	17.1
Goochland	4	4	33.9	1	14.6	3	60.9
Hanover	5	5	9.4	1	2.2	4	47.0
Henrico	22	23	12.9	15	9.7	8	35.0
New Kent	1	1	12.2			1	30.5
Powhatan	2	2	16.0			2	53.0
Richmond City	98	59	27.2	15	11.7	44	50.0
District 16	14	16	14.3	8	9.0	8	35.3
Caroline	6	3	17.1			3	35.5
King George	1	1	9.8	1	13.0		
Spotsylvania		2	6.8	1	4.1	1	20.9
Stafford	5	8	21.5	6	17.9	2	53.9
Fredericksburg	2	2	11.4			2	62.1
District 17	6	2	4.9	1	4.0	1	6.2
Lancaster		1	9.8	1	15.3		
Northumberland	1						
Richmond							
Westmoreland	5	1	7.1			1	16.3
District 18	11	7	12.1	2	5.2	5	25.3
Essex	2						
Gloucester	2	2	10.8	2	13.9		
King and Queen	1	1	15.9			1	31.0
King William	1	2	23.0			2	54.8
Mathews	2	2	23.3			2	87.5
Middlesex	3						
District 19	64	63	39.3	15	14.3	48	86.6
Dinwiddie	8	9	41.7	1	7.3	8	101.3
Greensville	8	8	51.3			8	100.5
Prince George	4	5	23.5	2	12.5	3	56.8
Surry	6	4	69.0			4	104.0
Sussex	5	7	63.1	1	25.3	6	84.1
Colonial Heights	4	2	11.2	2	11.3		
Emporia*							
Hopewell	5	3	12.4	1	5.1	2	45.7
Petersburg	24	25	58.1	8	33.1	17	90.4
District 20	224	160	19.0	45	7.6	115	46.0
Isle of Wight	4	4	19.4	2	17.3	2	22.1
Southampton	12	14	71.8	1	9.5	13	145.8
Chesapeake	17	12	10.4	3	3.5	9	30.2
Franklin City	8	8	112.7	3	97.2	5	123.6
Norfolk	106	62	22.2	14	7.7	48	49.3
Portsmouth	42	25	23.3	7	12.1	18	36.2
Suffolk	16	14	29.4	3	12.2	11	47.8
Virginia Beach	19	21	8.5	12	5.5	9	32.1

* Included with surrounding county.

(continued)

TABLE 74 - TUBERCULOSIS CASES UNDER SUPERVISION AND NEWLY REPORTED CASES WITH RATES PER 100,000 POPULATION BY RACE BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE, VIRGINIA, 1979 (continued)

Planning District/ City or County	Total Cases Under Supervision	Newly Reported Cases					
		Total		White		Nonwhite	
		Number	Rate	Number	Rate	Number	Rate
STATE OF VIRGINIA	960	747	14.2	327	7.7	420	40.9
District 21	69	66	18.8	19	7.7	47	45.4
James City Co.	4	3	8.8	1	40.9	2	20.7
York	5	4	9.2	2	5.5	2	27.4
Hampton	18	17	13.2	8	9.3	9	21.1
Newport News	42	42	29.1	8	8.0	34	77.5
Poquoson*							
Williamsburg*							
District 22	17	19	39.3	4	14.4	15	72.9
Accomack	13	13	40.0	4	20.1	9	71.7
Northampton	4	6	38.0			6	74.8
Mental Hospitals		8		5		3	

* Included with surrounding county.

TABLE 75
TUBERCULOSIS MORBIDITY AND MORTALITY WITH RATES PER 100,000 ESTIMATED POPULATION, VIRGINIA, 1969-1979

Year	New, Active Cases		Deaths**		Cases Under Supervision (Dec. 31)
	Number	Rate	Number	Rate	
1969	1,186	24.8	131	2.7	10,060
1970	1,175	25.2	88	1.9	8,382
1971	912	19.3	84	1.8	7,734
1972	817	17.1	87	1.8	7,394
1973	839	17.4	80	1.7	7,105
1974	799	16.3	66	1.3	6,801
1975*	908	18.3	55	1.1	6,272
1976	821	16.3	59	1.2	3,777
1977	742	14.5	56	1.1	1,866
1978	722	14.0	NA	NA	1,102
1979	747	14.2	NA	NA	960

* As a result of 1974 changes in "Diagnostic Standards and Classification of Tuberculosis", figures after 1974 reflect all newly reported cases without reference to activity.

** Due to differences in the way the underlying cause of death is selected, these figures for deaths from tuberculosis are not the same as the figures in the Vital Statistics Section of this report.

TABLE 76
NEWLY REPORTED TUBERCULOSIS CASES BY LOCATION OF DISEASE AND BACTERIOLOGIC STATUS, VIRGINIA, 1978 and 1979

Predominant Site	Total Cases		Bacteriologic Status					
			Positive		Negative		Not Done/Unknown	
	1978	1979	1978	1979	1978	1979	1978	1979
ALL SITES	722	747	614	634	52	80	56	33
Pulmonary	606	632	529	544	37	61	40	27
Extrapulmonary	116	115	85	90	15	19	16	6
Pleural	24	32	13	20	9	9	2	3
Lymphatic	20	19	17	15	1	3	2	1
Bone/Joint	13	8	7	6	2	1	4	1
Genitourinary	14	23	14	20		3		
Miliary	17	11	14	11	1		2	
Meningeal	8	2	6	2			2	
Peritoneal	4	3	2	3	1		1	
Other	16	17	12	13	1	3	3	1

OFFICE OF HEALTH CARE PROGRAMS

The Office of Health Care Programs contains the Divisions of Family Health Services, Dental Health, Medical Assistance (Medicaid), and Emergency Medical and Health Facilities Services. Within Family Health Services are the Bureaus of Maternal and Child Health, Family Planning, Crippled Children Services, Medical Social Work, Home Health Services, Public Health Nursing, and Nutrition; and within Emergency Medical and Health Facilities services are the Bureaus of Emergency Medical Services and Medical and Nursing Facilities Services.

FAMILY HEALTH SERVICES

MATERNAL AND CHILD HEALTH

During the last few years, more women have been planning their families to suit their life styles by limiting the number of children they have and deciding when to have them. The interval between births has also increased. As a result, the emphasis of maternity care has shifted to the well-being of the fetus in utero and the quality of life of the newborn.

The Bureau of Maternal and Child Health continues its commitment to early identification of the high-risk prenatal patient and her prompt referral to a high-risk center. These centers provide consultative services within their health region, give direct clinic services, and often provide labor, delivery, and postpartum hospital care to the high-risk mother and her infant. During the year, contracts with the high-risk clinics were written to assure that high-risk indigent maternity patients receive quality care. There is continued emphasis on referrals and communications between the local health departments and the high-risk centers.

Through continuing education programs, the Maternal and Child Health staff has educated public health nurses in recognizing the high-risk patient for prompt referral. Each high-risk center also has a continuing education program for public health nurses in their referral area to improve communications between the center and clinics.

The Bureau of Maternal and Child Health continues to be concerned with improving the outcome of pregnancy. The State Health Department was awarded an "Improved Pregnancy Outcome" grant beginning September, 1978. Four districts with a high perinatal mortality rate participate: Crater, Cumberland Plateau, Piedmont and Eastern Shore Health Districts. This project is designed to provide prenatal care by utilizing all community resources possible to improve the pregnancy outcome of mothers in these districts.

Teenagers who become pregnant present special problems during pregnancy. Early prenatal care will mitigate the risk to both woman and fetus. In fiscal year 1980, 4,453 patients between the ages of 10-17 attended local health department clinics for their prenatal care; 39.2 percent started their care in the first trimester, 42.7 percent in the second trimester, and 18.1 percent received their care in the third trimester.

Under the Bureau's hospitalization program for fiscal year 1980, a total of 6,123 hospital days were authorized for 1,013 admissions at a total of $1,541,322.14. This program provides for the hospitalization of indigent women with complicated pregnancies and indigent infants under 18 days of age who have high-risk conditions.

Throughout the year, prenatal care was evaluated in many of the local health departments by the Maternal and Child Health staff. The recommendations were often followed by staff conferences at the local health departments. In the future, more emphasis will be placed on utilization of existing facilities within the communities. A method for tracking the mother and her newborn will be developed so that there is a system that will identify pregnancy outcome.

The Bureau, through its Child Health Program, promotes preventive health services and the delivery of high-quality comprehensive health care for all children within the Commonwealth. Special attention is being given to high-risk infants and pre-school aged children. Within the past year, approximately 33,224 of the State's newborn were seen in clinics conducted by the Health Department.

As part of the Child Health Program, thirteen regional child development clinics provide comprehensive diagnostic services to children with previously screened developmental problems, such as suspected mental retardation. During fiscal year 1980, these clinics served a total of 3,972 children. The child development clinics have a significant function in the State's Plan for the Identification and Diagnosis of Handicapped Children. Of the total number of children seen in child development clinics, 2,687 were new patients.

NEW PATIENTS SEEN IN CHILD DEVELOPMENT CLINICS
VIRGINIA, FISCAL YEAR 1980

Referred by:	Number	Percent
TOTAL	2,687	100.0
Private Physicians	347	12.9
Public Health	488	18.1
Mental Health	31	1.2
Hospitals	84	3.1
Welfare	190	7.1
Schools	923	34.4
Other Community Agencies	196	7.3
Other	325	12.1
Unknown	103	3.8

In addition, the field clinic in Lenowisco Health District for which the Bureau had been given authorization became operational in fiscal year 1980.

On May 1, 1979, the infant screening program for congenital hypothyroidism became Statewide for infants born or residing in Virginia. The T4 test, and TSH, if indicated, are run on the same blood sample used for the Guthrie test for PKU. During fiscal year 1980, 5 babies were diagnosed with Congenital Hypothyroidism, 12 babies with Thyroid Binding Globulin Deficiency, and 4 with other thyroid related diseases. There were 8 babies diagnosed with Phenylketonuria during fiscal year 1980. Thirty-four PKU children were under active supervision in the PKU Program during the period.

The local health departments report they performed 21,179 Sickle Cell Electrophoresis screening tests for fiscal year 1980. Also, during calendar year 1979, 115 Sickle Cell Electrophoresis tests were reported by the private sector participating in Medicaid screening.

Within the Maternal and Child Health Program, Federal funds are designated for the operation of a Program of Projects that provides special health services in specific geographical locations. An unduplicated count of patients served for the calendar year 1979 is shown in the table below.

SICKLE CELL ELECTROPHORESIS SCREENING TESTS
PERFORMED IN LOCAL HEALTH DEPARTMENTS
VIRGINIA, FISCAL YEAR 1980

Screening Tests	Number of Tests
TOTAL	21,179
Maternal-Child Health Clinics	14,955
Medical Mental Health and Miscellaneous Clinics	961
Medicaid Screening Clinics	5,263

NUMBER OF PERSONS SERVED IN SPECIAL MATERNAL AND
CHILD HEALTH PROJECTS
VIRGINIA, CALENDAR YEAR 1979

Project	Number Served
TOTAL ALL PROJECTS	10,454
Dental Projects	563
Green County Dental Project	490
Madison County Dental Project	73
Richmond Maternal and Infant Care Project	2,146
Mothers	796
Infants	1,350
Children and Youth Projects	7,726
Charlottesville	2,096
Norfolk	5,630
Intensive Infant Care Project	19*
Children's Hospital of the King's Daughters, Norfolk	

*Of these, one was born in the Project hospital (CHKD-NG) while 18 were born elsewhere (NAM).

Plans were finalized among the genetics centers of the three medical schools and the Virginia Sickle Cell Anemia Awareness Program (VASCAP) during the second year of a three-year Genetics Disease grant for implementation of the grant; the Health Department participated in a nationwide genetic workshop January 13-16, 1980, in Arlington funded by this grant.

FAMILY PLANNING

During fiscal year 1980, 85,702 patients received medical and educational services in the 175 clinic sites reporting to the Bureau of Family Planning. These patients made 134,921 visits during this twelve month period.

All but three of Virginia's 35 health districts have family planning teams supported by the Federally funded Virginia Family Planning Project. The Project also subcontracts with seven private agencies to deliver clinical and/or educational services. Agencies offering these services are Central Virginia Community Health Center, Family Services, Inc., Virginia Institute for Adolescent Counseling and four Planned Parenthood groups.

The Bureau continued its emphasis on reaching Virginia's adolescent population with 39 clinics scheduled exclusively for teens. Clinic services were provided for 34,460 adolescents, an increase of 7.1 percent over the previous year. Forty percent of the total caseload were adolescents. Workshops on adolescent counseling were held throughout the State for teenagers, youth ministers and health department employees.

The Title XX sterilization program, available on a Statewide basis, funded 1,232 sterilizations in fiscal year 1980 which represents a 4.8 percent increase over the previous year.

The Bureau of Family Planning continued to establish a K-12 family life education program in public schools. Twenty-six school districts have implemented family life programs and 19 more are in the planning or curriculum development stage.

The "Facts of Life" hotline is a telephone information service which features 35 taped messages covering family human sexuality, maternal and child health, nutrition and venereal disease. Calls to the "Facts of Life" hotline more than doubled to 134,835 in this fiscal year. Media campaigns in target areas increased the number of calls significantly.

CRIPPLED CHILDREN SERVICES

The Bureau of Crippled Children operates the following programs for medically indigent handicapped children who reside in the State with their legal guardians: Orthopedic, Cerebral Palsy, Child Amputee, Scoliosis, Rheumatic Fever, Congenital Heart Disease, Child Neurology, Facial Deformities, Dental Deformities, Eye Surgery, Defective Hearing, Pediatric Surgery, Pediatric Urology, Pediatric Neurosurgery, Plastic Surgery, Burn, Cystic Fibrosis, Rheumatoid Arthritis, Hemophilia, and Pediatric Endocrinology. For the purposes of the program, a physically handicapped child is a person under the age of 21 with certain physical defects resulting from congenital anomalies or acquired through disease, accident, or faulty development, who, in the opinion of the medical specialist, can be benefited by treatment. As of 1974, legislation extended services under the Cystic Fibrosis and Hemophilia Programs to individuals over age twenty-one. The Adult Neurology Program includes only cases who were transferred from Child Neurology at age 21.

The Bureau operates by close cooperative agreement with other services within the State Health Department, and with other official and non-official organizations and consultative services. It makes contracts and plans for total programs which are built around stationary and field clinics as well as hospital

and convalescent care. The case finding, field clinics, field follow-up, and local management are carried on by local health department staff. The hospital clinics and certain local independent clinics are run by their own staffs in cooperation with local health departments. The Bureau of Crippled Children purchases hospital and convalescent ward services.

Any physician, hospital, agency, or patient may request admission to a Bureau of Crippled Children program by contacting the local health department where the patient lives. Emergency admissions may be made by contacting the local health department or a Bureau of Crippled Children clinic office.

The Bureau of Crippled Children, under the Disabled Children's Program, administers the Supplemental Security Income (SSI) Program under Public Law 94-566. All children certified for SSI, from birth to age seven or of any age who have never attended public school, are referred by SSI to the Bureau, which is mandated to provide proper and appropriate medical, rehabilitative, education, social, developmental, and emotional services to prepare the child for entrance into the public school system and to enhance the child's ability to benefit from the subsequent training and education. SSI eligible children from age seven years to sixteen years will receive a routine referral to the Bureau of Crippled Children for any benefits that the Bureau provides. The Disabled Children's Program terminated as of July 1, 1980.

As shown in the summary of Crippled Children activities (Table 79, page 243) the case register consisted of 40,210 records at the end of fiscal year 1980. This was an increase of 3.1 percent over the 38,997 records at the end of the previous report period.

During the year, 8,805 new cases were added to the Crippled Children register, while 7,592 were removed. This was an increase of 6.4 percent in the number of new cases added and an increase of 10.5 percent in the number removed. Of those removed, 3.0 percent were individuals who had reached 21 years of age and, therefore, were no longer qualified to receive services under the Children's program; 5.5 percent established residence in another state; 1.3 percent of the registrants died; 13.5 percent had no crippling condition or had registered with the Crippled Children Bureau in error; and another 17.3 percent were removed because they were cured or had received maximum benefits available. The remaining 59.4 percent were closed due to inactivity status or various other reasons.

There were 24,396 children receiving care during 1980, an increase of 8.2 percent, or 1,858 more than the 22,538 served by the Crippled Children's Bureau during fiscal year 1979. Children receiving clinic services increased by 7.1 percent. Clinic services were provided to 23,267 children, 1,539 more than the previous total of 21,728. As shown in the following table, the number of children seen in clinics increased in 14 programs and decreased in 5 programs. A total of 3,676 clinic sessions were held during the year with 47,363 patient visits recorded, an average of 12.9 patient visits per clinic session.

There was an increase of 8.7 percent in the number of cases requiring hospitalization; 11.1 percent in the number of admissions; and 13.6 percent in the number of days care provided by the program. Average number of hospital days per admission increased from 6.9 days in fiscal year 1979 to 7.1 days during fiscal year 1980. There were an additional 83 children who received minor surgery as out-patients in hospitals or doctors' or dentists' offices.

DISTRIBUTION BY PROGRAM OF CHILDREN REGISTERED IN THE CRIPPLED CHILDREN BUREAU AS OF JUNE 30, 1979 AND 1980

Program	Number of Cases	
	1979	1980
TOTAL	38,997	40,210
Orthopedic*	23,848	24,765
Child Neurology	3,287	3,265
Congenital Heart Disease	3,130	3,145
Defective Hearing	2,612	2,759
Eye Surgery	1,353	1,384
Pediatric Urology	958	1,026
Pediatric Surgery	868	89[illegible]
Facial Deformity	600	60[illegible]
Pediatric Neurosurgery	536	558
Plastic Surgery	560	524
Rheumatic Fever	496	398
Adult Neurology	187	256
Cystic Fibrosis	233	254
Pediatric Endocrinology	102	111
Burn Surgery	67	80
Hemophilia	67	75
Rheumatoid Arthritis	55	67
Adult Hemophilia	24	26
Adult Cystic Fibrosis	14	16

*Includes also Cerebral Palsy, Child Amputee and Scoliosis.

Drugs, diagnostic tests, contractual therapy and appliances are some of the auxiliary services furnished by the Crippled Children's Bureau. Excluding staff and administrative expenditures, auxiliary services accounted for 26.5 percent of the expenditures for Crippled Children programs during fiscal year 1980. The number of children furnished prostheses, appliances, and plasters was 3,253. Children receiving auxiliary services, including those who received drugs in conjunction with tests or appliances, and contractual therapy, were 9,127. The number of children receiving appliances and the quantity of appliances are listed in the following table for fiscal years 1979 and 1980.

APPLIANCES PROVIDED TO CHILDREN BY THE CRIPPLED CHILDREN PROGRAM FISCAL YEAR 1979 AND 1980

Type Appliance	Children		Quantity	
	1979	1980	1979	1980
TOTAL (Unduplicated)	2,648	3,253	7,591	9,764
Hearing aids	203	190	288	261
Braces	344	620	383	735
Shoes	1,230	1,370	1,656	1,941
Dental	4	22	4	31
Orthodontics	91	106	441	412
Glasses	415	532	445	599
Prostheses	44	73	48	87
Repairs/alterations	465	733	745	1,008
Other	266	410	3,581	4,690

NUMBER OF CHILDREN SEEN IN CRIPPLED CHILDREN CLINICS BY PROGRAM
FISCAL YEARS 1978 - 1980

Program	1978	1979	1980
TOTAL	20,370	21,728	23,267
Orthopedic*	8,114	8,901	9,788
Congenital Heart Disease	2,467	2,625	2,776
Child Neurology**	2,746	2,759	2,724
Defective Hearing	2,044	2,409	2,682
Eye Surgery	1,202	1,334	1,467
Pediatric Urology	954	892	943
Pediatric Surgery	521	484	534
Facial Deformity	477	460	497
Plastic Surgery	479	450	399
Pediatric Neurosurgery	400	367	355
Rheumatic Fever	471	361	308
Adult Neurology	63	196	242
Cystic Fibrosis	215	224	237
Pediatric Endocrinology	50	82	109
Hemophilia	45	58	69
Burn Surgery	50	45	44
Rheumatoid Arthritis	38	36	39
Adult Hemophilia	24	32	34
Adult Cystic Fibrosis	10	13	20

*Includes also Cerebral Palsy, Child Amputee and Scoliosis.
**Includes MCV Child Neurology/Neurosurgery.

MEDICAL SOCIAL WORK

The Bureau of Social Work is located organizationally in the Division of Family Health Services; however, it is professionally responsible for all social work in the State Department of Health. It has broad responsibilities for professional development, program planning, training, and professional performance of social workers, and assists in social work recruitment, selection, and orientation. Public health social work positions are budgeted through the bureau, project, or local health department to which the social worker is assigned and are the administrative responsibility of the organizational unit in which they are budgeted.

SOCIAL WORK POSITIONS IN THE STATE HEALTH DEPARTMENT
NOVEMBER 1, 1980

Program	Clinical Social Workers	Social Workers	Technicians
TOTAL	44	63	11
Crippled Children	6	1	
Family Planning	7	30*	
Health Department (Local)	13*	10*	8
Health Department (State)	1		
Maternal and Child Health	14	2	3
Medical Assistance	3	20	

*Includes some part time employees.

Social work within the Virginia State Department of Health had its beginning with the Social Security Act of 1935. Under that Act, funds were made available to the states through Title V and the old U.S. Children's Bureau for social work services through the Maternal and Child Health and the Crippled Children programs. The first medical social work consultant position with the Virginia State Department of Health was approved effective July 1, 1940. This position was assigned to the Rheumatic Fever Program within the Bureau of Crippled Children.

Social work, in the public health setting, provides services to clients and their families helping them to deal with the impact of illness on individual and family functions and to achieve maximum benefits from health care services.

Social workers function as a part of the health care team to achieve a coordinated effort in the resolution of the client's problem(s) that interfere or prevent the client's recovery. Medical social workers help people with social and emotional factors that affect their constructive use of medical care.

Health Department social workers, along with other health professionals, evaluate the quality of care being provided in long-term care facilities such as nursing homes, state mental hospitals, and institutions for the mentally retarded. The population served by the medical social workers includes pregnant women, preschool children, children who are crippled or suffering from conditions that lead to crippling, persons needing information about family planning, the aged, and the terminally ill.

Social work is provided in a variety of different types of public health settings. These include the local health departments, home health programs, crippled children clinics, family planning activities, maternal and infant care projects, children and youth projects, child development centers, and the Virginia Medical Assistance Program (Medicaid).

Public health social workers are also responsive to community health needs such as protection for adults, child abuse, home health, and day care services. They work cooperatively with other social welfare agencies.

HOME HEALTH SERVICES

Home health services are an increasingly vital component of the health care universe offered by the Department of Health. Impetus for this program was received by the enactment of Title XVIII (Federal Insurance Medicare) of the Social Security Act. Recognition of the need for home health services, as well as their cost effectiveness over institutionalization, has prompted Medicaid and other third-party insurers to include such coverage in their benefit plans. The Department of Health has all 36 health districts and their local health department units actively engaged in the provision of home health services. All Department of Health home health providers are licensed and certified as home health services agencies.

During fiscal year 1980, health professionals made 229,573 visits to 11,411 patients at a cost of $8,398,626. This represents an increase of 19.1 percent in patients and 5.8 percent in visits over the previous year. The average number of visits per patient was 20.1. The number of patients and visits by city and county is presented in Table 84, page 250.

HOME HEALTH SERVICES
PATIENTS BY PAYMENT SOURCES
FISCAL YEAR 1980

Payment Sources	Number of Patients	Percent of Total Reimbursement
TOTAL	11,411	100.0
Medicare	6,405	56.1
Medicaid	2,052	18.0
Title XX	726	6.4
Other	2,228	19.5

For fiscal year 1980, 80 percent of Home Health Services Program patients were eligible for Medicare, Medicaid or Title XX. Eighty percent of all chargeable visits were billed by the Bureau of Home Health Services to the sources mentioned, while the remaining 20 percent were billed to other sources or provided at no cost to the medically indigent.

HOME HEALTH SERVICES
AGE OF PATIENTS SERVED
FISCAL YEAR 1980

Total	Age (in years)						
	Under 1	1-14	15-19	20-44	45-59	60-64	65 & Over
11,411	119	332	100	657	1,502	987	7,714

Home Health Services are available to all segments of the population and are provided pursuant to doctor's order to home-bound patients without regard to age, race, creed, source of payments or patient's ability to pay whenever there is a need and appropriate staff are available. Nursing and other services such as physical therapy, occupational therapy, speech therapy, medical social services and home health aides are available. Due to the growth of the program (an average of 22.4 percent per year over the past 12 years) a wide spectrum of full-time, part-time and contractual employees are utilized to deliver needed services. These services were provided by 303 registered or public health nurses, 9 licensed practical nurses, 65 physical therapists, 21 speech therapists, 9 occupational therapists, 2 medical social workers, 114 home health aides, 16 male orderlies and 139 physicians.

During the year, the public health nurses made 125,960 visits, or 54.9 percent of the total visits. Home health aides made 62,327 visits (27.1 percent of the program visits), physical therapists, 30,622 visits (13.3 percent), occupational therapists, 2,673 visits (1.2 percent), speech therapists, 5,467 visits (2.4 percent), male orderlies, 1,400 visits (0.6 percent), and medical social workers, 1,124 visits (0.5 percent).

During fiscal year 1980, the Bureau of Home Health Services was reorganized to provide a foundation for support of the program in the field, and severe cash-flow problems were overcome with the implementation of the Periodic Interim Payment (PIP) program. Also, a Statewide data management and reporting system was successfully introduced and implemented, and the problem of heavy paperwork demands by Medicare were addressed and new automated systems proposed for implementation in fiscal year 1981.

HOME HEALTH SERVICES
PATIENTS AND VISITS BY MAJOR DISEASE CATEGORY
FISCAL YEAR 1980

Disease Category	Patients	Visits
TOTAL	11,411	229,573
Diabetes Mellitus	1,662	32,974
Cerebrovascular Accidents	1,090	28,336
Nervous System Disorders	792	11,441
Chronic Ulcer of Skin	410	11,609
Hypertension	373	5,470
Congestive Heart Failure	340	5,722
Other Cerebrovascular Disease	334	8,841
Arteriosclerosis	253	5,497
Chronic Obstructive Pulmonary Disease	230	4,957
Rheumatoid Arthritis	191	5,506
Osteoarthritis	182	5,433
Other	5,554	103,787

PUBLIC HEALTH NURSING

During fiscal year 1980, a total of 678,762 visits were made by Public Health Nursing staff to provide health services to people in homes, schools and communities in Virginia. The trend toward increasing nursing time in clinical activities and decreasing home visiting time continues. Approximately 35 percent of available nursing time was utilized for service in clinic settings, whereas approximately 30 percent was utilized in patient visits. Patient visits may be home, office, or school visits. Other patient and community activities accounted for the remaining 35 percent of nursing time. Detailed data on public health nursing visits made to the patient's home are given in Table 81, page 246, and data on all visits by program are given in Table 80, page 244.

PERCENT OF NURSING TIME SPENT BY TYPE OF ACTIVITY
FISCAL YEAR 1980

Total Time	All Patient Visits*	Participation in Clinic	Community Activity	Professional Improvement	Coordination Activity
100.0	29.7	34.6	5.5	7.9	22.4

*Includes visits to or regarding patients in the home, office, school or other location.

The number of patients admitted to Public Health Nursing services during fiscal year 1980 in all programs was 42,944. The number of persons served was 204,131, an increase of approximately 2,500 persons served over the previous year. These people received health maintenance and preventive services designed to avoid or minimize medical care costs and/or to provide optimum health for citizens of the Commonwealth.

The Certified Nurse Practitioner movement continues to develop. At the end of fiscal year 1980, there were 21 Family Nurse Practitioners and 23 Clinical Nurse Practitioners functioning in the Health Department. The Clinical Nurse Practi-

tioners are certified as either pediatric, maternity, geriatric, family planning, or adult nurse practitioners. Located in isolated rural areas of the State or in the inner cities, nurse practitioners provide primary health care services. Their total patient contacts during this fiscal year were 62,760.

The number of cases opened to nursing care in the Home Health Program continued to increase. Public health personnel served 11,411 patients (a 19 percent increase over last year) in the Home Health Program using generalized public health nursing personnel plus hourly and contract personnel. These were patients who might otherwise have required hospitalization or nursing home care.

PERCENT OF PUBLIC HEALTH NURSING TIME SPENT IN ALL PROGRAMS
FISCAL YEAR 1980

Program	Approximate Percent of Time
TOTAL	100.0
Home Health	25.0
Family Planning	16.0
Child Health	15.0
Crippled Children	5.0
Chronic Disease	3.0
Maternal Health	7.0
Tuberculosis	5.0
Communicable Disease	3.0
General Health	5.0
School Health	6.0
All Other	10.0

PUBLIC HEALTH CLINIC ACTIVITY

Clinic services for people of the Commonwealth this fiscal year were the greatest in number of any previous year reported. There were 65,608 clinics held with 1,118,013 visits and 591,363 persons served. Detailed data on clinic sessions and total attendance are shown in Table 82 on page 248 and clinic visits and persons served with percent change are given in Table 83 on page 249.

CLINIC VISITS AND PERSONS SERVED BY TYPE OF CLINIC
FISCAL YEAR 1980

Type of Clinic	Clinic Visits	Persons Served
TOTAL	1,118,013	591,363
Maternal and Child Health	346,772	143,080
Family Planning	155,316	76,028
Chronic and Specialized	148,015	80,894
Immunization	132,480	92,890
General Medical and Family Practice	119,050	42,829
Tuberculosis and Respiratory	110,672	88,530
Venereal Disease	56,981	42,044
Crippled Children	44,194	22,006
Unknown	4,533	3,062

NUTRITION

The Bureau of Nutrition, within the Division of Family Health Services, has two sections, Public Health Nutrition Services and the Special Supplemental Food Program for Women, Infants and Children (WIC).

Public health nutritionists work with local health departments and the community to improve the nutritional status of Virginians. In local health departments, the public health nutritionist provides consultation to the health care team by keeping them informed of the newest nutrition knowledge and how this may be used in the health care of their clients. Clients with particularly difficult nutrition problems are referred to Public Health Nutritionists for individual counseling. During fiscal year 1980, public health nutritionists were included in regional review teams in evaluating the nutrition care provided to health department patients, and in this role they were able to positively influence nutrition standards of care.

In the community, public health nutritionists are frequently called upon as a resource in the development of nutrition programs and as experts in the field of nutrition.

During fiscal year 1980, six full-time and three-part time public health nutritionists covering every health region of the State, provided counseling and/or nutrition education services to approximately 13,000 lay persons. The majority of lay persons reached were health department patients whose nutrition statuses were assessed and a plan developed for needed intervention. Although emphasis was placed on the nutritional needs of pregnant women and children, other programs in which nutritionists provided guidance included Family Planning, Crippled Children, School Health, Dental Health, Chronic Disease, Child Development, Home Health, and Maternal and Child Health.

As the health community screens for such debilitating diseases as hypertension, diabetes, lipid and cholesterol abnormalities, the need for sound management of nutritional care requires optimum nutrition skills from health professionals. Public health nutritionists provided information and assistance to approximately 1,700 health care workers in 1980. One nutritionist provided assistance with nutrition training of physicians at Eastern Virginia Medical College. All nutritionists provide inservice education to public health nurses, physicians, dentists, social workers, outreach workers, and others involved in public health care as well as community groups such as schools and colleges, day care centers, hospitals, and industries.

A highlight of the year was a Statewide conference "The Eating System: Making Virginia Policy on Food and Nutrition," November 27-28, 1979, attended by 350 persons either working in or interested in the field of nutrition.

One part-time nutritionist was hired by an Improved Pregnancy Outcome project, and it is hoped that in the future more special programs such as this can provide additional staff for the delivery of quality nutrition services.

WIC PROGRAM

The Special Supplemental Food Program for Women, Infants and Children (WIC) is a 100 percent Federally funded program sponsored by the United States Department of Agriculture and administered in Virginia by the State Department of Health. The WIC Program provides supplemental foods and nutrition education to women

before and after pregnancy and infants and children up to age five who are eligible and have special nutritional needs. Its purpose is to serve as an adjunct to good health care during these critical periods of growth and development, to help prevent health problems, and to improve the health status of these persons.

Women and children enrolled in WIC receive food supplements, which include milk, cheese, eggs, vitamin C rich fruit juice and iron-fortified cereal. For infants, WIC provides iron-fortified infant formula, iron-fortified baby cereal and fruit juice. Nutrition education teaches participants how to plan, prepare and maintain a well-balanced diet.

With a leveling of funds and hence the growth rate, WIC Program emphasis is being focused on upgrading the quality and effectiveness of services. In December, 1979, a Procedures Manual which details all aspects of local agency responsibilities was distributed to each local agency. During the same month, regional conferences were conducted in five locations around the State to discuss new Federal requirements and to provide guidance to local agencies regarding their implementation. Other staff activities during the year included evaluation of 31 local WIC programs, conducting workshops for WIC vendors and social services agencies and speaking about WIC to college health students.

In January, 1980, the U.S. Department of Agriculture conducted a full scale management evaluation of the WIC Program. Findings included the recommendation that additional staff be hired to enable increased Program monitoring.

During Federal fiscal year 1979-1980, the WIC Program funding increased from a first quarter allocation of 4.3 million dollars to a fourth quarter allocation of 4.8 million dollars. Although it is estimated that more than 152,000 Virginians are potentially WIC eligible, Program funding limited the provision of benefits to a caseload of 49,213 persons as of June, 1980. In addition to receiving WIC foods, approximately 90,331 participants or their caretakers received nutrition education from July 1, 1979 to June 30, 1980.

DENTAL HEALTH

The Division of Dental Health provides for the development, coordination and evaluation of programs intended to improve and maintain the oral health of the public. Efforts of the Division are directed toward prevention of dental disease for all people, and the provision of dental care for the State's indigent residents.

A major thrust this past year has been the promotion of the use of the appropriate fluoride measure for the prevention of dental caries. Economic assistance is being provided for the first time to Virginia communities to assist them in fluoridating their public water supplies. Fluoride mouthrinse programs have been instituted for rural elementary-age school children in eleven different counties or independent cities through funds provided by the Bureau of Maternal and Child Health. An additional seven counties or cities have initiated their own fluoride mouthrinse programs. In cooperation with National Institutes of Dental Research, a school fluoridation program, i.e., the addition of fluoride to the school water supply, was initiated this year in Mathews, Cumberland and Amelia counties.

The oral cancer early detection program, managed by the Division, was conducted in 20 locations in which 1,684 persons were screened, 4 malignant lesions detected, 8 dysplasias or pre-malignant lesions diagnosed, and 9 patients referred for further study. This program is conducted in cooperation with the American

Cancer Society, the Virginia Dental Association, and the School of Dentistry of the Medical College of Virginia.

The second major area of concern is the provision of dental care for the indigent. This is accomplished through local health departments which currently employ over 80 full-time public health dentists as well as dental hygienists and assistants.

Treatment services are provided primarily for children although some adults are seen. This past year, over 414,467 services were provided during 124,608 visits for an estimated dollar value of $3,757,891. The provision of dental care for the adults and the elderly who are not eligible for dental care under any other program continues to be a problem and several localities are beginning to meet this need through special financial grants or care programs.

DENTAL PATIENT VISITS BY AGE
FISCAL YEAR 1980

Age	Visits	Age	Visits
TOTAL	124,608*		
Under 6	12,261	16-19	13,733
6	6,316	20-30	14,797
7	7,119	31-40	5,766
8	7,673	41-50	3,070
9	7,669	51-60	3,329
10	7,024	61-70	3,525
11-15	30,058	71+	2,268

*Does not include patient visits seen by dental assistants which are tabulated by city/county on page 251.

MEDICAL ASSISTANCE (MEDICAID)

The Title XIX Medical Assistance Program, referred to as Medicaid, was established in 1965 under the provisions of Public Law 89-97. On the recommendation of the Governor's Advisory Committee on Medicare, the State Department of Health was designated in December, 1965, as the State agency to administer the Title XIX Medical Assistance Program. At the General Assembly's 1966 session, the State Health Commissioner, subject to the approval of the Governor and the State Board of Health, was authorized to prepare and submit a plan for Medical Assistance to the U. S. Department of Health, Education, and Welfare (HEW). The Committee on Medicare was continued and charged with the responsibility of advising and assisting the Health Department in developing the State Program for Medical Assistance.

The Virginia State Plan for Medical Assistance was approved by HEW in June, 1969, and the Program was implemented on a Statewide basis on July 1, 1969. In the initial phase of implementation, the plan provided financial assistance for meeting certain health care expenses only for the State's categorically needy persons. This group consisted of recipients of money grants under Federal aid programs, such as: Old Age Assistance (OAA), Permanently and Totally Disabled (APTD), Families with Dependent Children (AFDC), Foster Children (FC), and Aid to the Blind (AB).

The Medical Assistance Program was expanded on January 1, 1970, to include certain benefits for persons who are medically needy and "categorically related." Persons in this group are able to provide their food, clothing, and shelter, but do not have sufficient funds to pay for medical care. To be eligible for the Program, medically needy persons must be blind, disabled, or 65 or older, or a dependent child (categorically related). Their income may exceed basic public assistance for the Title XIX Program. Financial resources, as well as recent medical care debts, are taken into consideration in determining eligibility.

MEDICAID ELIGIBILITY BY FEDERAL CATEGORY AS OF JUNE 30, 1980

Federal Category	Total Eligible	Categorically Needy	Medically Needy
TOTAL	282,658	246,452	36,206
Aid to Families with Dependent Children	181,058	169,809	11,249
(Children)	126,175	118,367	7,808
(Adults)	54,883	51,442	3,441
Old Age Assistance	52,578	35,318	17,260
Aid to the Disabled	38,044	30,565	7,479
Foster Care Children	5,080	5,080	
Aid to the Blind	1,276	1,058	218
Refugees - Indo-Chinese	4,622	4,622	

On January 1, 1974, the Supplemental Security Income (SSI) Program, a Federal assistance program, replaced the adult welfare categories (aged, blind, and disabled) for money payments, thus leaving only the Aid to Dependent Children (ADC) program as a State Welfare program. In 1976, Virginia exercised an option allowing its eligibility criteria to be more restrictive in certain areas than SSI, so that all SSI recipients are not automatically eligible for Medicaid. Accordingly, ADC and some SSI recipients are recipients of Medicaid, as well as those persons who are medically needy and "categorically related."

On July 1, 1974, Virginia converted to the Consolidated Grant System for payments to Aid to Dependent Children eligible families. In converting to the Consolidated Grant System, the State was divided into three areas with each having a consolidated grant adapted to the cost of living for that particular area.

Because the establishment of the income level for the medically needy must be directly related to the Aid to Dependent Children money payment level, the Virginia Medical Assistance Program has established Medicaid base income levels for the same three geographic areas as shown in the following table.

ANNUAL INCOME LEVELS FOR MEDICAL ELIGIBILITY BY GROUPS AND FAMILY SIZE BASED ON FLAT GRANT ALLOWANCES FOR ADC, FISCAL YEAR 1980

Number of Persons in Family Unit	Annual Income		
	Group I	Group II	Group III
1	$2,300	$2,500	$3,100
2	2,700	3,100	3,800
3	3,100	3,400	4,000
4	3,500	3,800	4,300
5	3,900	4,200	4,800
6	4,300	4,600	5,300
7	4,800	5,100	5,800
8	5,300	5,600	6,400
9	5,800	6,100	6,900
10	6,400	6,700	7,400
Each Additional Person	600	600	600

As called for in the State Plan, determination of eligibility is made by the Welfare Department. During fiscal year 1980, 391,487 different persons were enrolled for medical assistance during some period of time.

The following services were provided to recipients of the Program:

Physicians' services
Limited dental treatment for recipients under twenty-one years of age
Inpatient hospital services limited to 14 days per stay, with extension up to 21 days if medically necessary
Outpatient hospital services
Laboratory and X-ray services
Skilled and intermediate nursing home care
Home health care services
Clinic services in certified facilities
Certain pharmaceutical services when ordered by a physician (There is a $.50 charge to the recipient for each prescription filled or refilled, except for family planning supplies and for institutionalized recipients and those under twenty-one, payable to the provider upon receipt of the drug.)
Inpatient hospital services for individuals sixty-five years of age and over in institutions for tuberculosis or mental diseases
Payment of deductible and coinsurance for health care benefits paid in part by Title XVIII (Medicare)
Emergency medical transportation
Health screening examinations for recipients under age twenty-one
Family planning services
Certain podiatry services on referral by an attending physician
Other services when preauthorized by the local health department:
1. Non-emergency medical transportation
2. Refractions and eyeglasses (There is a $2.00 charge for all eyeglasses except those found necessary as a result of a screening examination for persons under twenty-one years of age. All copayments to the providers will be made upon receipt of the eyeglasses.)
3. Ostomy supplies
4. Oxygen and respiratory equipment
5. Dialysis equipment and supplies necessary for home treatment.

UNITS OF SERVICE FOR WHICH MEDICAL VENDOR PAYMENTS WERE MADE
FISCAL YEAR 1980

Services	Number
Days Care in General Hospitals	431,119
Days Care in Mental Hospitals	10,262
Hospital Outpatient and Clinic Visits	389,345
Days Care in Skilled Nursing Home	226,521
Days Care in Intermediate Care Facilities	4,164,058
Days Care in Intermediate Care Facilities (Mental)	1,340,584
Physician's Visits	1,231,584
Number of Prescriptions	3,414,350

Federal matching funds are available to finance the Medical Assistance Program. The amount of Federal funds available to each state is based upon the average per capita income of the state. For Virginia, Federal matching funding during fiscal year 1980 was 56.5 percent for medical costs of the Program. This means

that by pooling medical care expenditures for the indigent, the State of Virginia received approximately $1.30 in Federal funds for each State dollar expended. Under the Title XIX Program, payments for services rendered are carefully reviewed and are based on an equitable return to providers of services in the community.

AVERAGE MONTHLY NUMBER OF PERSONS FOR WHOM VENDOR MEDICAL PAYMENTS WERE MADE BY MEDICAID, FISCAL YEAR 1980

Eligibility Category	Number
TOTAL NUMBER OF PERSONS	145,838
Aged Persons	40,570
Blind Persons	836
Disabled Persons	26,496
Persons in Families with Dependent Children	77,936

Of the estimated 146,916 children eligible for screening in the State, 48,704 received screening services in fiscal year 1980. This is approximately 37.5 percent more than the number of children screened in the previous year.

EMERGENCY MEDICAL AND HEALTH FACILITIES SERVICES

EMEPGENCY MEDICAL SERVICES

The Bureau of Emergency Medical Services (EMS) is responsible for the planning and development of a comprehensive, coordinated Statewide emergency medical services system. Initially, the Bureau's chief responsibilities were the licensure and certification of ambulances and attendants. These responsibilities were the outcome of requirements set forth in the Virginia Ambulance Law of 1968. As a result, the Office of Emergency Medical Services was created to fulfill this requirement.

Further expansion of EMS activities occurred in 1974 as the State Health Department, pursuant to General Assembly action, assumed responsibility for Statewide development of a comprehensive emergency medical care system. As a result, the Office of Emergency Medical Services was upgraded to Bureau status and its functions greatly expanded. This same legislation also created a committee composed of emergency services providers and health care consumers to advise and assist the Board of Health. In 1978, this committee was renamed the State Emergency Medical Services Advisory Council with its membership expanding from 26 to 37 members.

The Bureau is responsible for the establishment of a comprehensive, Statewide emergency medical care system which incorporates facilities, transportation, manpower, communications, and other components as integral parts of a unified system that serves to improve the delivery of emergency medical services. To fulfill this obligation the Bureau has divided its organization into five general areas of responsibility: planning, administration, communications, training, and licensure and certification.

The Bureau of Emergency Medical Services receives advice and guidance on the formulation of policy matters from the 37 member Governor's Advisory Council on EMS. The Council, which provides consumer and provider input on State policy, has

formed six standing committees to assist Bureau staff in developing policy proposals and operational alternatives for each of the EMS components. The six standing task force committees are: Planning and Development, Facilities, Public Information and Education, Transportation and Communications, Manpower and Training, and Legislative.

The Bureau's training staff coordinates and administers approximately 450 training classes each year. The purpose of these classes is basic training for the approximately 6,000 new licensees that are certified each year and refresher courses required for recertification of approximately 25,000 active licenses each biennium.

The Bureau has developed examination and certification guidelines for four levels of pre-hospital manpower: Emergency Medical Technician-A; Emergency Medical Technician-Cardiac; Emergency Medical Technician-Paramedic; and Emergency Medical Technician-Lay Instructor. The EMT-A curriculum is the revised and updated DOT 81-hour course, and is recognized for reciprocal certification in three neighboring states and the District of Columbia. Two dates of importance affecting manpower and training are: (1) effective March 1, 1981, an EMT-A's certification period is reduced from three to two years (this reduction makes Virginia's program more compatible with other state's programs for reciprocity purposes); (2) effective March 1, 1983, regulations require one EMT-A per basic life support ambulance. At this time over 75 percent of EMS agency personnel are trained as EMT-A's.

The Cardiac EMT Program is an intermediate level program between EMT-A and EMT-Paramedic. The curriculum for the Cardiac-EMT training program consists of seven of the fifteen modules of the U. S. Department of Transportation National Paramedic Training Program. The Paramedic-EMT program consists of all fifteen modules. Finally, the EMT-A Lay Instructor program, begun in 1974, is structured along the lines of the program developed by Dunlap and Associates for the Department of Transportation. The program was developed to serve Virginia's needs for lay instructors.

In addition to the four state certified levels of pre-hospital training, two additional courses recognized as intermediate training include the IV Technician and Shock Trauma Technician. Program guidelines and procedures were developed and approved by the State Advanced Life Support Subcommittee and the Manpower and Training Task Force of the State EMS Advisory Council. Two selected skills recognition programs include the use of the Esophageal Obturator Airway (EOA) and the Medical Anti-Shock Trouser (MAST).

In 1980, there were 410 licensed EMS pre-hospital agencies in Virginia. The majority of the agencies (61.5 percent) are volunteer rescue squads. Agencies are identified as belonging to one of six categories: volunteer, fire, funeral, hospital, commercial, and governmental. All EMS agencies must meet minimum vehicle and equipment requirements as approved by the Board of Health. Field representatives of the Bureau inspect vehicles and equipment yearly for compliance with State regulations. Licenses are issued by the State Health Department. Currently, licensed agencies maintain 1,228 ambulances for emergency use.

Under present regulations there are five categories of vehicles, Classes A through E: first response (reserved), basic life support, advanced life support, neonatal life support, and invalid transport vehicle. Each class of vehicle must meet specific regulations as to capabilities, specifications, equipment and supplies.

EMERGENCY MEDICAL SERVICES
INVENTORY SUMMARY AS OF JUNE 30, 1980

Category	Number	Percent
EMS AMBULANCE AGENCIES, BY AFFILIATION - TOTAL	410	100.0
Commercial	45	11.0
Fire/Rescue	46	11.2
Funeral	40	9.7
Governmental	16	3.9
Hospital	11	2.7
Volunteer	252	61.5
AGENCY COMMUNICATIONS		
Central Dispatch	273	66.6
911 System	30	7.3
AMBULANCES BY DESIGN - TOTAL	1,228	100.0
Custom Designed	14	1.1
Carry-All (Standard)	132	10.8
Carry-All (High-Rise)	188	15.3
Vans	440	35.8
Modular	379	30.9
Station Wagons	26	2.1
Hearse/Conversion Units	49	4.0
AMBULANCE ATTENDANTS BY TRAINING		
Advanced First Aid	12,201	
EMT-A's	8,970	
Lay Instructors	493*	
Cardiac-EMT's	984*	
IV Technicians	455*	
Shock Trauma Technicians	459*	
EMT Paramedic	20*	
IN-HOSPITAL SERVICES		
Hospital with 24-hour emergency department	90	
Cardiac Care Units	39	
General/Mixed ICU's	84	
Other Intensive Care	21	

*Personnel also included in EMT-A category. Personnel may be certified in one or more categories.

The Bureau of Emergency Medical Services provides technical assistance to EMS councils, city and county governments, and EMS agencies in coordinating license procedures and EMS communication planning. Selection of equipment, tower sites, and frequencies are developed in accordance with the State Emergency Medical Services Communications Plan. Directory listings of hospital EMS communications and access codes have been developed to provide ambulances easier access to hospital facilities. The Bureau also assists with the coordination necessary between local police and fire units and the local emergency medical services system.

Planning and implementation for the 911 emergency phone number is underway in all major population centers in Virginia and 911 presently serves over 1,394,000 persons. Active telephone industry and local government planning for 911 is underway in other localities with a total population in excess of 1,700,000 persons.

A related function of the Bureau of Emergency Medical Services is in the area of disaster preparedness. Disaster preparedness requires planning and cooperation with the State Office of Emergency and Energy Services (OEES) and its local coordinators. With OEES and Regional EMS Councils, the Bureau has developed guidelines and standards for the conduct of local disaster exercises. The Bureau has continued to act as agency coordinator for emergency health services in the event of a disaster.

In 1978, the General Assembly established the Virginia Rescue Squad Assistance Fund for the purpose of providing financial assistance to rescue squads and other emergency medical services organizations in Virginia. This program is administered by the Bureau of Emergency Medical Services in accordance with regulations of the Board of Health. Seventy-four grants have been awarded to rescue squads and other EMS organizations, totaling over $675,000, for the purchase of needed equipment and for providing requisite training for EMS personnel.

The Bureau, during 1980, completed the installation of hospital highway signing to enable motorists to identify the exact location and quickest route to an emergency medical facility. Over 135 hospital signs have been installed or relocated, affecting 19 hospitals.

Manpower and training, licensure and certification, communications, planning, and coordination are just a few of the various and diverse functions of the Bureau of Emergency Medical Services. Many of the day-to-day activities include the distribution of Basic Life Support ambulance run sheets or the evaluation of emergency room capabilities. Many public information and education efforts include the distribution of Auto Crash Life Saving Facts wallet cards, a booklet on Training Programs, and Aid-To-Choking-Victims posters. In addition, the Bureau of Emergency Medical Services held Virginia's First Annual Statewide Emergency Medical Services Symposium in December, 1980. The Symposium provided a forum for discussion of issues that confront the various disciplines in emergency medical services: emergency department physicians and nurses, pre-hospital emergency care providers, administrators (local, regional, State and Federal), regional EMS councils (members and staff) and others involved in the emergency medical care system in Virginia.

MEDICAL AND NURSING FACILITIES SERVICES

Programs in the Bureau of Medical and Nursing Facilities Services are divided into two primary areas of responsibility: licensing and inspection of hospitals and nursing homes; and certification of providers participating in the Medicare and Medicaid programs.

In 1947, the General Assembly of Virginia recognized the vital need and responsibility to the citizenry to establish a hospital licensing and inspection program. Enactment of Chapter 16, Title 32, Code of Virginia was the result. Prior to that time, health care institutions had been established and operated by anyone. In many instances their establishment was without regard for adequate health, safety and welfare standards to protect the patients. The Board of Health promulgated rules and regulations setting forth minimum licensure standards by which existing institutions and all new institutions must operate.

The term "hospital," as presently used in the health code, is a generic term which covers a variety of institutions and services; including short-stay general hospitals, long-stay chronic disease hospitals, tuberculosis hospitals, children's hospitals and other special hospitals, such as nursing and convalescent homes. The term was recently broadened to also include out-patient surgical centers, abortion clinics and home health agencies.

LICENSED HOSPITALS AND NURSING HOMES WITH NUMBER OF BEDS
VIRGINIA, JUNE 30, 1980

Type of Facility	Number of Facilities	Number of Beds
TOTAL	342	41,923
General Hospitals	105	22,783
Eye, Ear, Nose, and Throat Hospitals	3	115
Christian Science	1	36
Nursing Homes	163	18,550
Abortion Clinics	6	
Outpatient Surgery Clinics	4	
Home Health Agencies	56	
Rehabilitation Centers	4	439

In 1966, the State Health Department entered into an agreement with the Federal agencies to administer the program to certify all facilities that participate in the Medicare program (Title XVIII). In 1969, the program was expanded to include all facilities participating in the Medicaid program (Title XIX). Federal funds are made available on a cost basis to administer both programs.

The certification of health care facilities has expanded since 1966 to include providers of hospital, skilled nursing care, intermediate nursing care, intensive psychiatric treatment, home health agency, independent laboratory, end-stage renal dialysis, outpatient X-ray, outpatient speech and/or physical therapy, rural health clinic and independent physical therapy services.

MEDICARE AND MEDICAID CERTIFICATION
JUNE 30, 1980

Type of Certification	Certified Facilities	Certified Beds*
TOTAL	467	47,539
General Hospitals	109	23,222
Psychiatric Hospitals	13	1,149
Skilled Care Facilities	12	804
Skilled/Intermediate Care Facilities	44	6,983
Intermediate Care Facilities	123	15,381
Home Health Agencies	56	
Independent Laboratories	49	
Outpatient Speech Therapy Service	6	
End-Stage Renal Dialysis Units	38	
Independent Physical Therapy Practitioners	11	
Portable Supplier of X-Ray	2	
Rehabilitation Centers	4	

*Includes beds licensed and/or operated by the Department of Mental Health and Mental Retardation.

In order for beneficiaries to receive care under the Medicare or Medicaid programs, those services must be provided by a certified facility or service.

The reasons for the enforcement of minimum State and Federal standards are to assure proper maintenance, operation and construction of health care facilities and to broaden the concepts of persons responsible for operating facilities by

focusing their attention on problem areas and techniques which are faulty. Standards are also used as an educational tool for institution personnel and the general public.

The licensing and certification activities provide a coordinated service of technical assistance, evaluation, education and consultation. The inspections of health care facilities are made on-site. After each health care inspection, an indepth evaluation of the findings is made and a report prepared and mailed to the institution. The report includes deficiencies noted, any recommendations for correction, and a request for the institution to notify the Department within ten (10) days of progress toward correction or changes made to correct any cited deficiencies. Follow-up inspections are made to determine that continuing compliance with State rules and regulations and Federal regulations are sufficient to continue licensing and certification of the institution or service. Special investigations of complaints are made when they are applicable to the delivery of health services. These are handled on a case-by-case basis and are not part of the routine on-site inspection process.

In addition to on-site health care inspections, the Bureau is also responsible for the review and approval of all architectural plans and specifications for the construction of new facilities, additions to, modernization and renovation of, and replacement of existing facilities. Review and consultation with project architects are periodically conducted from the time of preliminary drawings through working drawings. Construction cannot proceed until working drawings have been approved for compliance with State licensing rules and regulations.

Upon completion of any type of construction project, evaluations of the physical plan, staffing patterns, equipment and supplies, and operational and patient care policies are made prior to issuing an initial license to operate. All licenses are renewable annually on the first of January. After initial licensure, the routine inspection procedures are followed to assure that facilities are properly maintained and operated before the license is renewed.

The Civil Rights Compliance Program (Title VI) for hospitals and nursing homes was initiated in 1970. The Bureau is responsible for annual inspections and evaluations to determine each facility's compliance with the Act. Inspections are required for all facilities which have received Federal funds from any source. Monthly reports are prepared on Compliance status of each facility and forwarded to the Regional Civil Rights Office for review.

FACILITIES REQUIRED TO COMPLY WITH THE CIVIL RIGHTS ACT
(TITLE VI) OF 1964

Type of Facility	Number of Facilities	Number of Beds
TOTAL	268	47,539
General and Special Hospitals	109	23,222
(Long Term Care Units of Hospitals)*	(14)	(929)
Nursing Homes**	146	23,168
Psychiatric Hospitals with IPT*** Beds	13	1,149

*Long-term units included with total licensed capacity of hospitals.

**Includes skilled care and intermediate units operated by the Department of Mental Health and Mental Retardation.

***Intensive Psychiatric Treatment

The rapid growth and continued change in facilities providing health and medical care has made consultation a major responsibility of this Bureau. The range of consultative services spreads from nursing care to architectural review. The demand and necessity for this service far exceeds the original concept. The knowledge and experience of the personnel of this Bureau must include all aspects of health and medical care operation and construction. Communities, organizations, and institutions themselves demand that this Bureau be familiar with and able to provide the consultation needed in any given situation.

TABLE 77
CLINIC* ACTIVITIES BY AGE OF PATIENT FOR MATERNAL, FAMILY PLANNING AND CHILD HEALTH PROGRAMS
VIRGINIA, FISCAL YEAR 1980

Type Patient	Total			Under 1			1-4			5-17			18-20			21-44			45 and Over			Age Unknown		
	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.	New Pts.	Total Pts.	Total Vsts.
Maternal	18,641	24,608	104,429							3,848	4,905	18,568	6,078	7,971	33,992	8,577	11,531	51,288	14	20	96	124	181	485
First Trimester	7,391	8,508	13,552							1,513	1,717	2,547	2,326	2,650	4,203	3,476	4,026	6,559	7	8	11	69	107	232
Second Trimester	7,087	8,912	28,776							1,542	1,886	5,490	2,438	3,047	9,661	3,083	3,945	13,543	6	10	20	18	24	62
Third Trimester	2,408	4,295	48,560							458	798	8,412	766	1,362	16,067	1,171	2,116	23,952	1	2	30	12	17	99
TOTAL	16,886	21,715	90,888							3,513	4,401	16,449	5,530	7,059	29,931	7,730	10,087	44,054	14	20	61	99	148	393
Post Partum	1,755	2,893	13,541							335	504	2,119	548	912	4,061	847	1,444	7,234			35	25	33	92
Family Planning	33,104	88,354	177,688							10,528	19,093	36,656	9,265	23,309	48,194	12,945	44,331	90,333	315	1,472	2,166	51	149	339
Pill	19,546	59,831	130,153							7,311	15,020	30,770	5,932	17,919	39,015	6,264	26,721	59,961	12	71	155	27	100	252
IUD	1,237	5,939	12,505							107	273	645	224	832	1,971	882	4,578	9,466	19	245	400	5	11	23
Other Contraceptive	4,651	11,577	19,066							1,005	1,337	2,022	1,024	1,839	3,227	2,515	7,823	12,979	92	552	795	15	26	43
No Contraceptive	7,670	11,007	15,964							2,105	2,463	3,219	2,085	2,719	3,981	3,284	5,209	7,927	192	604	816	4	12	21
Child Health	67,066	112,731	233,072	18,094	24,506	62,568	16,885	38,005	102,386	31,157	48,841	65,880	726	1,108	1,770							204	271	468

*Clinics included are those listed in the table below.

TABLE 78
CLINIC ACTIVITIES FOR MATERNAL**, FAMILY PLANNING**, AND CHILD HEALTH PROGRAMS
VIRGINIA, FISCAL YEAR 1980

Type of Clinic	Number Sessions	New Patients by Program			Persons Served by Program			Total Visits by Program		
		Maternal	Family Planning	Child Health	Maternal	Family Planning	Child Health	Maternal	Family Planning	Child Health
TOTAL	43,579	18,641	33,104	67,066	24,608	88,354	112,731	104,429	177,688	233,072
01 Maternal & Child Health	3,080	2,862	269	6,685	4,114	536	11,809	16,218	752	49,419
02 Maternal Health	4,919	9,937	400	248	12,788	627	479	64,491	925	973
03 Family Planning	9,048	1,786	24,864	330	2,530	69,298	466	6,394	142,180	755
04 Gynecological	781	195	432	181	202	963	223	693	1,682	299
05 Maternal, Family Planning	2,255	2,384	4,649	161	3,120	13,368	224	13,164	21,968	324
10 Pediatric	9,274			33,835			61,961			128,125
11 Preschool	741			5,605			6,544			8,538
13 Work Permits	160			434			444			473
14 Medicaid Screening	3,796			7,440			13,142			14,824
20 Sickle Cell	8			84			84			84
85 Family Practice	701	17	16	155	19	31	189	212	309	942
86 General Medical	5,747	354	362	5,808	405	564	8,534	878	1,581	14,355
93 Miscellaneous	5,069	1,106	2,112	6,100	1,430	2,967	8,632	2,379	8,311	13,961

**Maternal and Family Planning patients in Child Health clinics are not included.

TABLE 79 - SUMMARY OF CRIPPLED CHILDREN ACTIVITIES, VIRGINIA, FISCAL YEAR 1980

ACTIVITY	All Programs	Ortho-pedic*	Facial Deformity	Pediatric Cardiology**	Eye Surgery	Pediatric Surgery	Pediatric Urology	Burn	Neuro-Surgery	Plastic Surgery	Defective Hearing	Neurology****	Cystic Fibrosis***	Hemophelia***	Pediatric Endocrinology
CASES ON STATE REGISTER															
At beginning of year	38,997	23,903	600	3,626	1,353	868	958	67	536	560	2,612	3,474	247	91	102
At end of year	40,210	24,832	606	3,543	1,384	895	1,026	80	558	524	2,759	3,521	270	101	111
Added during year	8,805	4,574	85	1,070	481	325	308	22	89	132	875	729	55	18	42
Removed during year	7,592	3,645	79	1,153	450	298	240	9	67	168	728	682	32	8	33
Crippling condition cured or maximun benefits obtained	1,313	547	6	149	57	139	69	2	10	27	109	190			8
Age 21 reached	225	44	3	74	11	2	12	1		3	30	44			1
Residence established in another state	417	149	22	56	25	8	14	1	8	20	53	53	5	2	1
Death of registrant	98	8	1	58		9	1		3	1	1	7	8	1	
Registration in error	1,028	387	1	333	91	4	12		6	1	140	45	5		3
Other	3,283	1,456	46	344	256	131	126	5	39	115	390	342	12	4	17
Consultation only	1,228	1,054		139	10	5	6		1	1	5	1	2	1	3
Cases actively served during year	24,396	10,094	507	3,402	1,533	574	1,003	48	369	418	2,931	3,026	262	110	119
CLINIC SERVICES															
Cases# actively served in clinics	23,267	9,827	497	3,084	1,467	534	943	44	355	399	2,682	2,966	257	103	109
Physical therapy clinics	1,061	1,056	1							1	1	1		1	
BCC clinics	23,080	9,741	406	3,084	1,467	534	942	44	355	394	2,681	2,963	257	103	109
Dental clinics	456	107	256	23	4	1	3		1	17	17	23	1	1	2
Number of visits	47,363	22,424	1,725	4,311	2,350	934	1,929	82	518	703	5,340	5,776	891	215	165
Physical therapy clinics	4,122	4,113	1							3	1	1		3	
BCC clinics	41,682	18,139	582	4,266	2,346	932	1,926	82	517	613	5,292	5,724	890	211	162
Dental clinics	1,559	172	1,142	45	4	2	3		1	87	47	51	1	1	3
Clinic sessions	3,676														
Physical therapy clinics	722	722													
BCC clinics	2,891	921	37	411	135	197	163	30	72	90	235	390	142	36	32
Dental clinics	63														
HOSPITAL CARE															
In-patient care															
Cases	1,927	414	96	303	133	156	102	19	50	81	376	163	19	5	10
Admissions	2,206	524	106	395	141	164	112	19	58	93	358	192	28	5	11
Days' care	15,605	5,246	765	3,244	338	1,217	609	332	797	555	580	1,505	322	43	52
Out-patient (Hospital or doctor's office)															
Cases	72	2	1		10	9	4			1	43	1	1		
Dentist's office (Hospital care)															
Cases	11	4	4	2							1				
AUXILIARY SERVICES (cases)#	9,127	3,238	143	2,282	598	54	514	5	51	43	990	892	156	70	91
Appliances	3,253	1,897	116	4	590	25	117	5		29	460	4	5	1	
Tests/Exams	6,025	1,636	28	2,183	5	20	400		40	8	773	736	91	21	84
Contractual therapy##	92	26	5							6	43		10	2	
Drugs	955	28	1	221	7	12	154	1	11	4	86	214	120	63	33

*Includes Orthopedic, Cerebral Palsy, Child Amputee, Scoliosis, and Rheumatoid Arthritis

**Includes Rheumatic Fever and Congenital Heart

***Includes child and adult cases and activities

****Includes child and adult cases and activities and MCV child neurology/neurosurgery

#Unduplicated count

##Occupational, physical, speech, hearing, orthoptic, and other types of therapy

TABLE 80 - PUBLIC HEALTH NURSING VISITS BY PROGRAM BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE SHOWING PERCENTAGE CHANGE OVER PREVIOUS YEAR, VIRGINIA, FISCAL YEAR 1980

Planning District/ City or County	Total Visits			Program									
											Home Health		
	1980	1979	Percent Change	Maternal	Child Health	Family Planning	Crippled/ Children	Chronic Disease	Ment./ III./ Aftercare	Tuberculosis	Chargeable	Non chargeable	Other Patient Contacts
STATE OF VIRGINIA	678,762	671,688	1.1	32,166	152.758	59,732	57,241	32,541	5,491	39,467	235,349	38,811	25,206
District 1	7,619	7,505	1.5	120	33	335	348	40	1	185	5,502	1,013	42
Lee	2,817	2,823	-0.2	3	17	149	210	6		82	2,109	233	8
Scott	2,345	2,334	0.5	92	8	116	29	3		9	1,739	325	24
Wise	1,948	1,989	-2.1	2		33	8	4		1	1,487	413	
Norton	509	359	41.8	23	8	37	101	27	1	93	167	42	10
District 2	11,689	13,124	-10.9	110	281	739	1,573	666	56	647	6,209	1,311	97
Buchanan	1,856	2,451	-24.3	28	82	376	351	37	12	169	435	346	20
Dickenson	1,638	2,204	-25.7	57	35	226	343	165	29	104	430	232	17
Russell	2,357	3,423	-31.1	13	35	70	251	110	3	69	1,460	339	7
Tazewell	5,838	5,046	15.7	12	129	67	628	354	12	305	3,884	394	53
District 3	37,988	36,347	4.5	1,102	989	4,509	2,309	552	72	391	23,318	4,442	304
Bland	1,206	831	45.1	21	36	429	347	37		5	303	26	2
Carroll	3,280	4,049	-19.0	141	140	350	201	10		29	1,760	609	40
Grayson	1,910	2,440	-21.7	100	201	229	328	12		34	925	60	21
Smyth	9,429	8,131	16.0	117	114	488	443	132	5	99	7,161	846	24
Washington	9,099	9,395	-3.2	63	125	381	272	185	42	75	6,067	1,846	43
Wythe	6,358	3,933	61.7	470	204	1,894	470	124	18	102	2,610	403	63
Bristol	5,390	5,790	-6.9	102	99	436	158	28	2	41	4,053	461	10
Galax	1,316	1,778	-26.0	88	70	302	90	24	5	6	439	191	101
District 4	11,688	11,374	2.8	636	956	1,209	1,460	459	47	418	4,035	2,177	291
Floyd	649	467	39.0	37	34	69	93	80		39	192	94	11
Giles	1,322	2,185	-39.5	29	76	123	187	239	8	89	466	81	24
Montgomery	4,572	4,039	13.2	167	113	294	541	14		93	1,961	1,287	102
Pulaski	3,039	3,134	-3.0	180	615	393	529	54	33	119	678	350	88
Radford	2,106	1,549	36.0	223	118	330	110	72	6	78	738	365	66
District 5	33,611	33,359	0.8	945	3,437	1,930	2,974	1,555	87	947	18,203	2,813	720
Alleghany	1,422	1,226	16.0	35	51	27	92	92	5	19	804	289	8
Botetourt	2,464	2,328	5.8	82	112	64	85	71	18	77	1,674	265	16
Craig	563	692	-18.6	29	35	170	14	65	12	7	213	4	14
Roanoke	7,188	7,481	-3.9	185	1,668	175	186	432	23	43	3,890	552	34
Clifton Forge	941	998	-5.7	47	109	25	49	77	3	5	479	107	40
Covington	1,505	1,292	16.5	57	57	47	139	108	14	9	854	204	16
Roanoke City	15,707	14,736	6.6	144	1,015	1,009	2,326	619	5	674	8,292	1,096	527
Salem	3,821	4,606	-17.0	366	390	413	83	91	7	113	1,997	296	65
District 6	30,948	34,755	-11.0	2,833	6,401	8,581	3,945	967	615	1,129	4,892	980	605
Augusta	6,421	6,723	-4.5	745	1,781	1,499	766	197	80	242	824	175	112
Bath	1,251	1,309	-4.4	9	101	8	331	60	208	43	325	138	28
Highland	561	693	-19.0	53	95	49	190	48	108	7	11		
Rockbridge	3,479	3,297	5.5	208	266	1,365	455	65	35	94	779	196	16
Rockingham	5,864	6,722	-12.8	692	1,510	1,382	918	186	29	331	566	44	206
Buena Vista	1,401	1,016	37.9	81	113	598	94	35	10	53	357	53	7
Harrisonburg	3,233	3,166	2.1	255	1,181	906	235	101	2	98	402	24	29
Lexington	949	1,038	-8.6	36	93	436	217	1	7	7	126	25	1
Staunton	4,400	6,351	-30.7	382	821	1,164	501	183	48	168	793	173	167
Waynesboro	3,389	4,440	-23.7	372	440	1,174	238	91	88	86	709	152	39
District 7	13,732	14,522	-5.4	1,275	1,516	1,604	1,895	547	259	999	4,042	787	808
Clarke	1,130	1,238	-8.7	157	120	97	142	71	30	141	163	50	159
Frederick	2,158	1,930	11.8	260	78	77	440	35	17	66	913	132	140
Page	2,154	1,981	8.7	297	404	222	324	99	53	178	431	32	114
Shenandoah	2,395	3,071	-22.0	92	104	549	282	124	46	328	599	101	170
Warren	3,355	3,740	-10.3	184	688	428	511	202	64	182	671	352	73
Winchester	2,540	2,562	-0.9	285	122	231	196	16	49	104	1,265	120	152
District 8	174,588	171,326	1.9	6,333	91,424	3,018	6,171	9,694	431	11,324	33,814	5,931	6,448
Arlington	18,810	21,678	-13.2	1,340	3,648	516	349	3,437	42	1,359	6,406	1,413	300
Fairfax	105,447	105,005	0.4	2,165	72,862	1,559	2,162	2,214	137	7,006	11,709	2,373	3,260
Loudoun	10,315	9,496	8.6	459	1,077	107	593	1,070	26	193	6,179	404	207
Prince William	12,274	8,942	37.3	851	2,579	129	1,585	539	58	1,504	2,079	932	2,018
Alexandria	18,342	18,609	-1.4	1,431	6,156	634	1,237	1,992	143	957	4,888	459	445
Fairfax City	3,021	2,564	17.8	30	2,084	32	39	32		61	646	87	10
Falls Church	4,200	3,458	21.5	33	2,878	33	25	317	19	80	633	79	103
Manassas	1,631	1,294	26.0	12	103	5	120	80	2	149	939	121	100
Manassas Park	548	280	95.7	12	37	3	61	13	4	15	335	63	5
District 9	17,246	19,078	-9.6	748	2,551	1,163	2,685	1,673	183	983	5,803	785	672
Culpeper	5,170	5,136	0.7	125	426	145	868	492	48	341	2,363	255	107
Fauquier	4,957	6,301	-21.3	395	1,197	395	807	563	22	399	643	193	343
Madison	3,048	3,074	-0.8	88	554	361	343	281	66	152	1,045	109	49
Orange	3,181	3,638	-12.6	91	203	216	515	248	32	88	1,621	154	13
Rappahannock	890	929	-4.2	49	171	46	152	89	15	3	131	74	160
District 10	28,564	30,640	-6.8	975	8,277	1,224	3,623	2,018	177	803	9,518	1,388	561
Albemarle	11,842	11,470	3.2	336	5,992	431	1,200	735	30	173	2,489	312	144
Fluvanna	1,753	2,228	-21.3	43	172	24	328	252	41	52	633	132	76
Greene	1,014	1,070	-5.2	14	32	38	130	30	4	26	596	90	54
Louisa	2,162	2,470	-12.5	75	344	132	409	113	12	65	878	109	25
Nelson	3,196	3,764	-15.1	79	250	202	345	289	20	76	1,674	226	35
Charlottesville	8,597	9,638	-10.8	428	1,487	397	1,211	599	70	411	3,248	519	227
District 11	12,673	14,430	-12.2	330	743	2,173	1,446	852	78	229	4,681	575	1,566
Amherst	1,658	2,090	-20.7	116	357	214	311	223	15	83	235	12	92
Appomattox	852	675	26.2	18	21	17	90	15	1	15	631	43	1
Bedford	3,067	4,302	-28.7	86	122	1,048	296	105	27	66	1,121	152	44
Campbell	1,782	2,838	-37.2	64	93	111	353	105	28	26	725	233	44
Bedford City	526	444	18.5	14	23	114	59	14	3	4	261	31	3
Lynchburg	4,788	4,081	17.3	32	127	669	337	390	4	35	1,708	104	1,382

TABLE 80 - PUBLIC HEALTH NURSING VISITS BY PROGRAM BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE SHOWING PERCENTAGE CHANGE OVER PREVIOUS YEAR, VIRGINIA, FISCAL YEAR 1980 (continued)

Planning District/ City or County	Total Visits			Program									
											Home Health		
	1980	1979	Percent Change	Maternal	Child Health	Family Planning	Crippled/ Children	Chronic Disease	Ment. Ill./ Aftercare	Tuberculosis	Chargeable	Non chargeable	Other Patient Contacts
STATE OF VIRGINIA	678,762	671,688	1.1	32,166	152,758	59,732	57,241	32,541	5,491	39,467	235,349	38,811	25,206
District 12	22,287	22,302	-0.1	2,005	2,268	3,529	3,432	2,486	254	1,482	4,697	1,818	316
Franklin	2,404	2,313	3.9	78	231	266	473	293	85	117	486	326	49
Henry	3,034	2,933	3.4	6	276	84	643	152	2	339	1,048	467	17
Patrick	2,298	2,713	-15.3	24	219	158	182	793	32	84	574	184	48
Pittsylvania	6,376	6,311	1.0	984	866	1,269	843	683	57	315	975	266	118
Danville	6,719	6,771	-0.8	868	573	1,531	1,074	483	73	457	1,239	348	73
Martinsville	1,456	1,261	15.5	45	103	221	217	82	5	170	375	227	11
District 13	7,438	6,793	9.5	481	437	745	1,728	421	9	539	2,395	533	150
Brunswick	2,074	1,755	18.2	220	132	290	441	122	5	88	619	117	40
Halifax	2,117	1,819	16.4	57	144	116	390	180	3	175	809	190	53
Mecklenburg	3,021	3,052	-1.0	204	157	339	893	115	1	274	758	223	57
South Boston	226	167	35.3		4		4	4		2	209	3	
District 14	11,155	10,227	9.1	785	1,235	829	1,822	1,054	341	373	4,157	418	141
Amelia	1,950	1,768	10.3	214	289	228	331	430	46	56	338	2	16
Buckingham	2,568	1,736	47.9	130	392	161	313	100	22	77	1,337	28	8
Charlotte	1,193	1,473	-19.0	73	141	63	231	106	32	62	279	189	17
Cumberland	1,508	884	70.6	16	68	87	88	149	7	17	1,009	48	19
Lunenburg	456	710	-35.8	51	35	22	125	11	89	37	48	38	
Nottoway	1,273	1,567	-18.8	68	32	26	155	58	47	51	757	71	8
Prince Edward	2,207	2,089	5.6	233	278	242	579	200	98	73	389	42	73
District 15	61,037	59,161	3.2	4,497	13,840	5,902	4,951	2,163	377	3,618	14,897	3,664	7,128
Charles City Co.	1,176	1,294	-9.1	32	95	392	107	58	33	37	339	36	47
Chesterfield	21,297	14,965	42.3	1,474	7,952	2,471	1,004	245		505	1,408	456	5,782
Goochland	1,766	1,800	-1.9	99	335	196	231	253	76	60	390	62	64
Hanover	2,085	2,226	-6.3	64	220	109	133	382	11	222	736	52	156
Henrico	3,274	6,182	-47.0	779	735	204	374	88	13	31	754	235	61
New Kent	595	780	-23.7	22	115	127	72	63	11	65	84	25	11
Powhatan	1,978	1,138	73.8	140	305	435	389	163	204	119	136	5	22
Richmond City	28,866	30,776	-6.2	1,887	4,083	1,968	2,641	911	29	2,579	10,990	2,793	985
District 16	14,098	12,492	12.9	1,464	2,522	1,401	2,825	1,579	33	1,339	2,004	773	158
Caroline	3,033	3,007	0.9	215	735	240	699	358	4	255	380	127	20
King George	977	1,055	-7.4	122	142	102	69	89	3	43	337	57	13
Spotsylvania	3,382	3,048	11.0	385	481	268	1,050	348	1	182	412	225	30
Stafford	3,659	2,813	30.1	492	814	368	642	275	15	380	484	145	44
Fredericksburg	3,047	2,569	18.6	250	350	423	365	509	10	479	391	219	51
District 17	6,590	7,815	-15.7	276	281	1,121	213	1,041	71	211	2,453	486	437
Lancaster	1,593	1,863	-14.5	106	92	536	55	88	10	55	344	103	204
Northumberland	1,928	2,116	-8.9	61	71	144	31	232	19	35	1,086	192	57
Richmond	1,574	1,910	-17.6	64	65	252	59	480	38	82	312	92	130
Westmoreland	1,495	1,926	-22.4	45	53	189	68	241	4	39	711	99	46
District 18	9,362	8,560	9.4	389	617	2,735	520	266	49	354	3,647	472	313
Essex	1,700	1,256	35.4	14	32	496	49	21		26	968	54	40
Gloucester	1,799	1,696	6.1	141	108	447	217	89	2	102	550	97	46
King and Queen	1,520	852	78.4	35	242	452	18	94	2	83	464	84	46
King William	1,556	1,370	13.6	35	123	332	77	45	3	73	699	104	65
Mathews	1,165	1,558	-25.2	73	34	332	78	5	41	17	470	75	40
Middlesex	1,622	1,828	-11.3	91	78	676	81	12	1	53	496	58	76
District 19	36,936	29,428	25.5	2,030	3,150	6,451	1,920	1,073	2,197	2,455	15,752	1,148	760
Dinwiddie	4,285	3,146	36.2	115	379	1,081	120	295	175	345	1,530	113	132
Greensville	1,427	1,701	-16.1	88	69	189	145	53	177	61	590	51	4
Prince George	1,674	1,291	29.7	138	260	430	168	87	97	188	217	31	58
Surry	2,526	1,985	27.3	111	393	510	65	74	131	255	812	51	124
Sussex	2,923	2,272	28.7	105	354	847	167	94	171	262	588	242	93
Colonial Heights	2,297	1,983	15 8	184	311	277	192	135	16	87	901	174	20
Emporia	867	1,004	-13.6	93	49	194	81	64	85	50	180	65	6
Hopewell	6,199	5,095	21.7	410	571	1,193	172	227	80	291	2,852	200	203
Petersburg	14,738	10,951	34.6	786	764	1,730	810	44	1,265	916	8,082	221	120
District 20	85,124	85,592	-0.5	4,217	9,049	8,485	5,530	2,386	135	6,849	40,592	4,691	3,190
Isle of Wight	4,063	3,233	25.7	222	106	840	441	94	2	296	1,520	527	15
Southampton	4,580	4,081	12.2	78	116	1,473	304	233	9	371	1,477	506	13
Chesapeake	14,672	12,227	20.0	90	244	193	377	50	1	643	12,286	767	21
Franklin City	2,456	2,041	20.3	263	81	549	108	113	2	180	962	185	13
Norfolk	25,432	29,645	-14.2	2,443	6,415	2,369	3,228	1,009	106	1,191	8,318	141	212
Portsmouth	11,142	13,006	-14.3	384	874	277	522	83		1,937	6,073	635	357
Suffolk	9,544	10,611	-10.1	340	441	2,245	368	780	14	913	3,702	593	148
Virginia Beach	13,235	10,748	23.1	397	772	539	182	24	1	1,318	6,254	1,337	2,411
District 21	26,230	28,216	-7.0	447	1,127	92	4,552	983	14	3,671	13,553	1,704	87
James City Co.	41	24	70.8	1	1	2	16	1		15	4	1	
York	625	335	86.6	10	20		220	10		359	4		2
Hampton	13,721	14,208	-3.4	360	996	66	3,422	176	7	1,903	5,594	1,165	32
Newport News	11,449	13,479	-15.1	40	106	11	821	785	7	1,325	7,783	524	47
Poquoson	15						1			8	3	3	
Williamsburg	379	170	122.9	36	4	13	72	11		61	165	11	6
District 22	18,159	14,642	24.0	168	1,624	1,957	1,319	66	5	521	11,185	902	412
Accomack	12,327	10,003	23.2	143	1,193	927	860	56	4	366	7,823	647	308
Northampton	5,832	4,639	25.7	25	431	1,030	459	10	1	155	3,362	255	104

TABLE 81 - NUMBER OF PUBLIC HEALTH NURSING VISITS IN THE PATIENT'S HOME BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH PERCENT OF HOME VISITS TO ALL PATIENT VISITS AND PERCENT OF HOME VISITS BY PROGRAM, FISCAL YEAR 1980

Planning District/ City or County	Total Home Visits	Program									Percent in Home
		Maternal Health	Child Health	Family Planning	Crippled Children	Chronic Disease	Ment. Ill./ Aftercare	Tuber-culosis	Home Health	All Other	
STATE OF VIRGINIA	386,209	13,848	32,649	20,717	26,185	17,912	1,352	11,925	253,775	7,846	56.9
Percent of Home Visits by Program	100.0	3.6	8.4	5.4	6.8	4.6	0.4	3.1	65.7	2.0	
District 1	6,609	10	21	235	153	8		127	6,050	5	86.7
Lee	2,510	3	12	123	121	3		51	2,193	4	89.1
Scott	2,067	6	5	94	8	1		2	1,950	1	88.1
Wise	1,733			17	1	3			1,712		89.0
Norton	299	1	4	1	23	1		74	195		58.7
District 2	8,476	49	71	517	363	443	18	182	6,812	21	72.5
Buchanan	1,083	10	26	274	106	10	2	67	588		58.4
Dickenson	831	27	10	172	57	79	13	15	455	3	50.7
Russell	2,037	8	23	46	147	95	3	44	1,665	6	86.4
Tazewell	4,525	4	12	25	53	259		56	4,104	12	77.5
District 3	27,711	311	426	1,119	910	302	47	138	24,395	63	72.9
Bland	866	9	35	136	328	33		3	321	1	71.8
Carroll	2,274	44	39	101	69	3		4	2,002	12	69.3
Grayson	1,262	32	107	53	155	8		12	888	7	66.1
Smyth	7,676	24	41	157	77	68	3	27	7,276	3	81.4
Washington	6,917	21	52	115	70	110	28	40	6,472	9	76.0
Wythe	3,648	129	94	358	143	57	14	40	2,799	14	57.4
Bristol	4,440	37	33	105	58	15	1	11	4,177	3	82.4
Galax	628	15	25	94	10	8	1	1	460	14	47.7
District 4	6,459	120	234	113	412	255	6	88	5,193	38	55.3
Floyd	318	5	9	4	21	38		13	224	4	49.0
Giles	844	14	44	21	82	147	5	28	497	6	63.8
Montgomery	3,042	18	16	31	76	4		18	2,869	10	66.5
Pulaski	1,227	26	140	29	203	35		21	762	11	40.4
Radford	1,028	57	25	28	30	31	1	8	841	7	48.8
District 5	23,558	216	621	780	897	755	22	497	19,544	226	70.1
Alleghany	986	12	20	4	13	46	1	4	885	1	69.3
Botetourt	2,052	34	59	6	14	62	4	53	1,810	10	83.3
Craig	281			1	1	49	7	2	209	12	49.9
Roanoke	4,829	55	200	21	72	295	4	17	4,159	6	67.2
Clifton Forge	693	8	37	5	23	64	1	2	541	12	73.6
Covington	1,109	9	13	4	24	64	2	3	990		73.7
Roanoke City	11,217	27	205	698	721	140	1	395	8,849	181	71.4
Salem	2,391	71	87	41	29	35	2	21	2,101	4	62.6
District 6	13,344	816	2,381	905	2,094	612	282	447	5,634	173	43.1
Augusta	2,635	234	582	209	360	137	5	117	968	23	41.0
Bath	1,053	9	85	6	269	51	167	27	417	22	84.2
Highland	288	6	36	8	117	41	70		10		51.3
Rockbridge	1,642	51	160	75	305	40	24	59	926	2	47.2
Rockingham	2,241	172	598	226	393	86	8	85	592	81	38.2
Buena Vista	609	15	74	20	53	26		18	400	3	43.5
Harrisonburg	1,005	69	236	77	129	39	1	30	418	6	31.1
Lexington	357	7	60	17	117		1	5	150		37.6
Staunton	1,901	106	312	96	230	134	4	69	928	22	43.2
Waynesboro	1,613	147	238	171	121	58	2	37	825	14	47.6
District 7	8,313	418	605	337	1,201	354	83	398	4,644	273	60.5
Clarke	567	30	63	13	79	43	7	71	190	71	50.2
Frederick	1,678	89	48	40	329	29	2	46	1,037	58	77.8
Page	1,186	110	170	76	163	72	13	88	445	49	55.1
Shenandoah	1,188	26	31	67	156	87	13	91	685	32	49.6
Warren	1,856	51	224	89	354	122	35	37	917	27	55.3
Winchester	1,838	112	69	52	120	1	13	65	1,370	36	72.4
District 8	61,559	3,179	9,319	1,170	2,647	4,880	222	1,807	37,223	1,112	35.3
Arlington	12,989	791	2,371	455	208	1,386	30	668	6,871	209	69.1
Fairfax	19,855	967	2,306	253	718	1,105	56	481	13,713	256	18.8
Loudoun	8,585	215	557	38	342	848	17	73	6,404	91	83.2
Prince William	4,919	247	720	60	775	255	24	290	2,287	261	40.1
Alexandria	11,789	923	3,178	340	465	1,121	86	242	5,165	269	64.3
Fairfax City	868	18	57	18	15	25		10	720	5	28.7
Falls Church	875	12	50	5	6	83	5	8	702	4	20.8
Manassas	1,230	3	64	1	82	48	1	30	988	13	75.4
Manassas Park	449	3	16		36	9	3	5	373	4	81.9
District 9	11,534	304	1,144	549	1,466	1,105	97	512	6,189	168	66.9
Culpeper	3,794	47	175	50	500	303	36	159	2,488	36	73.4
Fauquier	2,734	147	525	182	401	413	12	188	753	113	55.2
Madison	2,156	38	331	211	209	167	32	108	1,047	13	70.7
Orange	2,412	47	52	79	286	165	6	55	1,718	4	75.8
Rappahannock	438	25	61	27	70	57	11	2	183	2	49.2
District 10	16,969	463	1,941	606	1,584	1,346	70	377	10,305	277	59.4
Albemarle	5,426	182	993	267	594	500	22	96	2,690	82	45.8
Fluvanna	948	2	44	7	82	127		33	616	37	54.1
Greene	831	7	14	6	61	21	4	16	665	37	82.0
Louisa	1,480	26	169	43	190	77	1	14	944	16	68.5
Nelson	2,440	30	137	61	129	222	6	31	1,809	15	76.3
Charlottesville	5,844	216	584	222	528	399	37	187	3,581	90	68.0

(continued)

TABLE 81 - NUMBER OF PUBLIC HEALTH NURSING VISITS IN THE PATIENT'S HOME BY PLANNING DISTRICT AND CITY OR COUNTY OF RESIDENCE WITH PERCENT OF HOME VISITS TO ALL PATIENT VISITS AND PERCENT OF HOME VISITS BY PROGRAM, FISCAL YEAR 1980 (continued)

Planning District/ City or County	Total Home Visits	Program									Percent in Home
		Maternal Health	Child Health	Family Planning	Crippled Children	Chronic Disease	Ment. Ill./ Aftercare	Tuber-culosis	Home Health	All Other	
STATE OF VIRGINIA	386,209	13,848	32,649	20,717	26,185	17,912	1,352	11,925	253,775	7,846	56.9
District 11	9,496	160	425	1,379	835	478	16	101	5,037	1,065	74.9
Amherst	1,241	79	242	162	243	164	7	54	239	51	74.8
Appomattox	722	5	8	3	54	9		3	639	1	84.7
Bedford	2,239	37	69	582	196	71	5	30	1,229	20	73.0
Campbell	1,039	6	11	3	123	32	1	4	851	8	58.3
Bedford City	427	8	12	76	30	13		3	283	2	81.2
Lynchburg	3,828	25	83	553	189	189	3	7	1,796	983	79.9
District 12	12,763	1,044	1,276	1,450	1,645	1,443	31	463	5,303	108	57.3
Franklin	1,183	33	89	53	217	134	4	5	637	11	49.2
Henry	1,587	5	85	41	147	75		71	1,153	10	52.3
Patrick	1,189	11	50	22	15	439	8	30	603	11	51.7
Pittsylvania	3,750	523	577	470	470	423	8	136	1,096	47	58.8
Danville	4,293	467	441	750	721	332	8	175	1,379	20	63.9
Martinsville	761	5	34	114	75	40	3	46	435	9	52.3
District 13	5,042	294	268	365	1,130	257	1	273	2,398	56	67.8
Brunswick	1,298	137	80	119	231	75		55	583	18	62.6
Halifax	1,584	43	91	68	276	111		81	895	19	74.8
Mecklenburg	2,051	114	95	178	621	69	1	136	818	19	67.9
South Boston	109		2		2	2		1	102		48.2
District 14	7,066	369	490	306	858	359	69	199	4,376	40	63.3
Amelia	994	137	145	108	190	37	8	28	337	4	51.0
Buckingham	1,839	44	91	43	181	66	15	48	1,347	4	71.6
Charlotte	852	49	91	47	111	72	10	44	416	12	71.4
Cumberland	1,252	6	18	16	54	110	2	16	1,022	8	83.0
Lunenburg	258	28	24	15	68	9	15	23	76		56.6
Nottoway	895	24	13	10	41	28	4	8	763	4	70.3
Prince Edward	976	81	108	67	213	37	15	32	415	8	44.2
District 15	32,929	2,339	4,672	1,588	2,087	1,055	102	2,571	17,745	770	53.9
Charles City Co.	765	21	51	248	35	24	2	19	360	5	65.1
Chesterfield	3,519	456	701	137	357	136		101	1,618	13	16.5
Goochland	649	18	65	24	46	47	18	13	416	2	36.7
Hanover	1,118	19	76	17	86	62	1	104	732	21	53.6
Henrico	1,964	144	444	108	205	44	5	23	948	43	60.0
New Kent	281	13	38	48	26	13	3	39	101		47.2
Powhatan	488	14	51	30	78	59	51	24	176	5	24.7
Richmond City	24,145	1,654	3,246	976	1,254	670	22	2,248	13,394	681	83.6
District 16	7,743	559	999	372	1,686	1,120	25	582	2,327	73	54.9
Caroline	1,977	170	283	119	458	286	4	175	466	16	65.2
King George	575	28	52	27	30	71	2	21	338	6	58.9
Spotsylvania	2,062	161	208	59	725	227	1	112	555	14	61.0
Stafford	1,805	139	341	112	339	190	12	114	531	27	49.3
Fredericksburg	1,324	61	115	55	134	346	6	160	437	10	43.5
District 17	3,810	56	37	490	81	332	2	64	2,692	56	57.8
Lancaster	822	21	7	327	6	28	2	9	389	33	51.6
Northumberland	1,358	23	12	50	1	55		1	1,206	10	70.4
Richmond	562	7	5	55	23	89		22	354	7	35.7
Westmoreland	1,068	5	13	58	51	160		32	743	6	71.4
District 18	6,209	116	199	1,526	290	116	7	80	3,804	71	66.3
Essex	1,348	7	5	318	21	8		2	978	9	79.3
Gloucester	1,117	18	39	265	119	57	1	12	585	21	62.1
King and Queen	888	8	64	249	10	29	1	28	490	9	58.4
King William	1,032	9	49	169	26	19	3	22	726	9	66.3
Mathews	834	37	15	202	48	2	1	9	507	13	71.6
Middlesex	990	37	27	323	66	1	1	7	518	10	61.0
District 19	21,027	292	433	2,511	430	421	159	438	16,196	147	56.9
Dinwiddie	2,631	4	13	836	4	102	14	64	1,587	7	61.4
Greensville	816	33	32	38	36	28	14	20	615		57.2
Prince George	290	2	2	26	11	7	2	34	203	3	17.3
Surry	1,015	3	7	201	11	6	8	35	730	14	40.2
Sussex	1,477	22	67	396	92	55	78	99	657	11	50.5
Colonial Heights	1,575	72	143	55	137	103	3	55	996	11	68.6
Emporia	375	31	17	34	25	24	7	15	222		43.3
Hopewell	3,550	16	11	416	25	81	3	12	2,911	75	57.3
Petersburg	9,298	109	141	509	89	15	30	104	8,275	26	63.1
District 20	61,093	2,368	5,399	2,775	2,845	1,524	80	1,247	42,069	2,786	71.8
Isle of Wight	2,243	90	40	305	89	46		65	1,604	4	55.2
Southampton	2,038	22	33	86	50	105	6	103	1,630	3	44.5
Chesapeake	13,236	64	129	125	128	48	1	138	12,595	8	90.2
Franklin City	1,660	62	26	417	25	44		73	1,010	3	67.6
Norfolk	18,751	1,718	4,294	1,382	2,051	730	70	164	8,263	79	73.7
Portsmouth	8,458	259	605	123	422	39		212	6,468	330	75.9
Suffolk	4,997	74	62	274	50	507	3	235	3,744	48	52.4
Virginia Beach	9,710	79	210	63	30	5		257	6,755	2,311	73.4
District 21	19,311	309	805	33	1,887	718	11	1,088	14,380	80	73.6
James City Co.	13				8			1	4		31.7
York	129	9	8		43	2		62	4	1	20.6
Hampton	10,069	234	715	27	1,755	147	6	926	6,231	28	73.4
Newport News	8,840	35	81	6	55	567	5	83	7,963	45	77.2
Poquoson	9				1			2	6		60.0
Williamsburg	251	31	1		25	2		14	172	6	66.2
District 22	15,188	56	883	1,591	684	29	2	246	11,459	238	83.6
Accomack	9,979	44	599	679	319	22	1	142	7,989	184	81.0
Northampton	5,209	12	284	912	365	7	1	104	3,470	54	89.3

TABLE 82
NUMBER OF CLINIC SESSIONS HELD WITH TOTAL ATTENDANCE AND NUMBER OF PERSONS SERVED
BY TYPE CLINIC ATTENDED, VIRGINIA, FISCAL YEAR 1980

Type of Clinic	Number of Clinics Held	Clinic Visits	Net Number of Patients		Follow-up Visits
			Total	New	
STATE OF VIRGINIA	65,608	1,118,013	591,363	355,367	515,731
Maternal and Child Health	23,014	346,772	143,080	84,332	201,238
MCH	3,080	70,425	18,030	10,894	51,765
Maternal Health	4,919	67,997	14,423	11,040	53,397
Gynecology	781	7,952	4,527	2,748	3,314
Maternal - Family Plan.	2,255	36,993	17,563	7,761	19,192
Pediatric	9,274	137,298	66,748	37,440	69,510
Preschool	741	8,904	6,778	5,757	2,080
Work Permits	160	761	567	516	190
Medicaid Screening	1,796	16,311	14,332	8,064	1,771
Sickle Cell	8	131	112	112	19
Family Planning	9,048	155,316	76,028	29,573	78,334
Crippled Children	3,515	44,194	22,006	9,024	21,598
Orthopedic	641	13,929	6,669	4,108	7,212
Facial Deformity	39	485	323	63	153
Pediatric Urology	176	1,893	861	297	869
Pediatric Surgery	142	746	254	182	491
Eye Surgery	143	2,285	1,568	487	713
Rheumatic Fever	39	282	127	7	155
Congenital Cardiac	412	4,140	2,846	1,013	1,193
Child Neurology	321	6,808	3,849	874	2,879
Burn Surgery	29	58	36	26	22
Plastic Surgery	62	546	312	107	234
Defective Hearing	246	5,166	2,961	920	2,151
Pediatric Neurosurgery	104	647	305	73	341
Amputee	29	198	28	11	168
Cerebral Palsy	54	466	182	62	274
Hemophilia	62	262	52	30	184
Rheumatoid Arthritis	13	55	15	8	40
Cystic Fibrosis	153	891	302	54	585
Physical Therapy	741	4,410	866	431	3,466
Other Crippled Children	109	927	450	271	468

Type of Clinic	Number of Clinics Held	Clinic Visits	Net Number of Patients		Follow-up Visits
			Total	New	
Chronic and Specialized	1,307	31,066	12,094	7,147	18,290
Cardiac	2	22			22
Diabetes	23	420	182	148	236
Neuro-Sensory	34	261	123	45	134
Urology	128	726	331	261	381
Allergy	153	2,881	63	46	2,818
Hypertension	818	25,403	11,207	6,596	13,552
Mental Health	4	35	24	18	11
Mental Aftercare	144	1,306	158	32	1,130
Alcohol	1	12	6	1	6
TB and Respiratory	5,359	110,672	88,530	63,261	20,766
14X17 X-Ray	2,379	35,532	31,163	18,282	3,842
70MM X-Ray	5	39	29	17	10
TB-Diagnosed	1,933	61,234	46,352	38,113	14,267
Regional Chest	667	8,012	5,366	3,426	2,494
Other	375	5,855	5,620	3,423	153
Other Specialized	23,365	425,460	246,563	159,907	174,242
Venereal Disease	3,475	56,981	42,044	27,963	14,748
Immunization	6,144	132,480	92,890	55,595	38,072
Dermatology	90	839	440	393	399
Ear, Nose, Throat	194	1,770	1,088	654	628
Eye	1,309	13,312	12,152	9,770	921
Family Practice	701	29,704	5,877	3,601	23,653
General Hospital	5,747	89,346	36,952	25,507	51,221
Surgical	222	1,713	921	698	782
Tumor	296	2,152	1,566	795	548
Orthopedic - Adult	87	1,334	507	327	827
Physical Therapy-Adult	22	188	95	88	93
Occupational Therapy	8	151	72	56	79
Speech Therapy	1	110	73	19	33
Miscellaneous	5,069	95,380	51,886	34,441	42,238
Invalid Clinic Codes		4,533	3,062	2,123	1,263

TABLE 83
CLINIC VISITS AND THE NUMBER OF PERSONS SERVED WITH PERCENTAGE CHANGE BY TYPE CLINIC
VIRGINIA, FISCAL YEARS 1979 AND 1980

Type of Clinic	Visits		Percent Change	Persons Served		Percent Change
	1980	1979		1980	1979	
All Clinics	1,118,013	1,070,442	4.4	591,363	559,763	5.6
Maternal & Child Health	346,772	324,337	6.9	143,080	137,887	3.8
MCH	70,425	40,108	75.6	18,030	12,109	48.9
Maternal Health	67,997	70,444	-3.5	14,423	14,711	-2.0
Gynecology	7,952	7,456	6.7	4,527	4,610	-1.8
Maternal - Family Plan.	36,993	38,868	-4.8	17,563	17,998	-2.4
Pediatric	137,298	141,124	-2.7	66,748	67,361	-0.9
Preschool	8,904	10,132	-12.1	6,778	6,791	-0.2
Work Permits	761	2,377	-68.0	567	2,214	-74.4
Medical Screening	16,311	13,453	21.2	14,332	11,793	21.5
Sickle Cell	131	375	-65.1	112	294	-61.9
Family Planning	155,316	154,668	0.4	76,028	76,621	-0.8
Crippled Children	44,194	42,172	4.8	22,006	20,207	8.9
Orthopedic	13,929	12,166	14.5	6,669	5,720	16.6
Facial Deformity	485	487	-0.4	323	279	15.8
Pediatric Urology	1,893	2,005	-5.6	861	624	38.0
Pediatric Surgery	746	582	28.2	254	196	29.6
Eye Surgery	2,285	2,213	3.3	1,568	1,610	-2.6
Rheumatic Fever	282	669	-57.8	127	269	-52.8
Congenital Cardiac	4,140	3,890	6.4	2,846	2,429	17.2
Child Neurology	6,808	6,848	-0.6	3,849	3,873	-0.6
Burn Surgery	58	56	3.6	36	30	20.0
Plastic Surgery	546	487	12.1	312	265	17.7
Defective Hearing	5,166	4,956	4.2	2,961	2,818	5.1
Pediatric Neurosurgery	647	743	-12.9	305	282	8.2
Amputee	198	183	8.2	28	45	-37.8
Cerebral Palsy	466	435	7.1	182	197	-7.6
Hemophilia	262	144	81.9	52	62	-16.1
Rheumatoid Arthritis	55	27	103.7	15	7	114.3
Cystic Fibrosis	891	968	-8.0	302	226	33.6
Physical Therapy	4,410	4,781	-7.8	866	1,018	-14.9
Other Crippled Children	927	532	74.2	450	257	75.1
Chronic Disease	31,066	29,178	6.5	12,094	10,623	13.8
Cardiac	22	33	-33.3		33	
Diabetes	420	230	82.6	182	60	203.3
Neuro-Sensory	261	231	13.0	123	118	4.2
Urology	726	586	23.9	331	246	34.6
Allergy	2,881	3,106	-7.2	63	71	-11.3
Hypertension	25,403	21,165	20.0	11,207	9,230	21.4
Mental Health	35	199	-82.4	24	64	-62.5
Mental Aftercare	1,306	3,611	-63.8	158	800	-80.3
Alcohol	12	17	-29.4	6	1	500.0
TB & Respiratory	110,672	100,646	10.0	88,530	79,702	11.1
14X17 X-Ray	35,532	38,779	-8.4	31,163	32,924	-5.3
70MM X-Ray	39	3,957	-99.0	29	3,830	-99.2
TB-Diagnosed	61,234	43,040	42.3	46,352	31,237	48.4
Regional Chest	8,012	7,955	0.7	5,366	5,215	2.9
Other	5,855	6,915	-15.3	5,620	6,496	-13.5
Other Specialized	425,460	415,733	2.3	246,553	232,133	6.2
Venereal Disease	56,981	59,126	-3.6	42,044	44,054	-4.6
Immunization	132,480	106,058	24.9	92,890	71,566	29.8
Dermatology	839	774	8.4	440	377	16.7
Ear, Nose, and Throat	1,770	1,183	49.6	1,088	677	60.7
Eye	13,312	14,832	-10.2	12,152	13,478	-9.8
Family Practice	29,704	34,522	-14.0	5,877	10,264	-42.7
General Medicine	89,346	96,783	-7.7	36,952	37,353	-1.1
Surgical	1,713	1,502	14.0	921	782	17.8
Tumor	2,152	1,973	9.1	1,566	1,411	11.0
Orthopedic-Adult	1,334	1,663	-19.8	507	912	-44.4
Physical Therapy-Adult	188	201	-6.5	95	64	48.4
Occupational Therapy	151	39	287.2	72	36	100.0
Speech Therapy	110			73		
Miscellaneous	95,380	97,077	-1.7	51,886	51,159	1.4
Invalid Clinic Codes	4,533	3,708	22.2	3,062	2,590	18.2

TABLE 84
HOME HEALTH SERVICES
NUMBER OF PATIENTS, VISITS BY PLANNING DISTRICT AND CITY OR COUNTY, VIRGINIA, FISCAL YEAR 1980

Planning District/ City or County	Number of Patients	Visits	Visits Per Patient
STATE OF VIRGINIA	11,411	229,573	20.12
District 1	318	4,908	15.43
Lee	91	1,797	19.75
Scott	92	1,773	19.27
Wise	123	1,147	9.33
Norton	12	191	15.92
District 2	348	5,187	14.91
Buchanan	55	446	8.11
Dickenson	42	402	9.57
Russell	96	1,249	13.01
Tazewell	155	3,090	19.94
District 3	1,259	21,787	17.31
Bland	20	343	17.15
Carroll	112	1,860	16.61
Grayson	45	909	20.20
Smyth	353	6,693	18.96
Washington	288	4,875	16.93
Wythe	105	2,443	23.27
Bristol	305	4,221	13.84
Galax	31	443	14.29
District 4	277	3,684	13.30
Floyd	25	205	8.20
Giles	24	325	13.54
Montgomery	97	1,775	18.30
Pulaski	91	709	7.79
Radford	40	670	16.75
District 5	604	17,376	28.77
Alleghany	39	891	22.85
Botetourt	61	1,773	29.07
Craig	4	206	51.50
Roanoke	108	3,584	33.19
Clifton Forge	18	453	25.17
Covington	40	798	19.95
Roanoke City	270	7,486	27.73
Salem	64	2,185	34.14
District 6	258	5,082	19.70
Augusta	64	1,084	16.94
Bath	11	427	38.82
Highland	1	21	21.00
Rockbridge	29	757	26.10
Rockingham	34	395	11.62
Buena Vista	9	204	22.67
Harrisonburg	21	335	15.95
Lexington	6	172	28.67
Staunton	52	883	16.98
Waynesboro	31	804	25.94
District 7	263	3,519	13.38
Clarke	13	126	9.69
Frederick	72	804	11.17
Page	35	445	12.71
Shenandoah	28	369	13.18
Warren	50	591	11.82
Winchester	65	1,184	18.22
District 8	1,375	33,833	24.61
Arlington	236	6,397	27.11
Fairfax	493	11,500	23.33
Loudoun	195	6,172	31.65
Prince William	140	3,479	24.85
Alexandria	275	4,937	17.95
Fairfax City	17	676	39.76
Falls Church	19	672	35.37
Manassas	Included with Pr. Wm. Co.		
Manassas Park	Included with Pr. Wm. Co.		
District 9	248	5,564	22.44
Culpeper	83	2,115	25.48
Fauquier	50	662	13.24
Madison	40	1,011	25.28
Orange	64	1,655	25.86
Rappahannock	11	121	11.00
District 10	515	8,910	17.30
Albemarle	141	2,335	16.56
Fluvanna	34	575	16.91
Greene	38	613	16.13
Louisa	64	859	13.42
Nelson	62	1,648	26.58
Charlottesville	176	2,880	16.36
District 11	198	4,476	22.61
Amherst	23	272	11.83
Appomattox	28	531	18.96
Bedford	28	1,008	36.00
Campbell	39	882	22.62
Bedford City	8	292	36.50
Lynchburg	72	1,491	20.71
District 12	332	4,692	14.13
Franklin	33	481	14.58
Henry	85	1,036	12.19
Patrick	32	558	17.31
Pittsylvania	88	959	10.90
Danville	61	1,305	21.39
Martinsville	33	357	10.82
District 13	108	2,568	23.78
Brunswick	32	783	24.47
Halifax	38	941	24.76
Mecklenburg	38	844	22.21
South Boston			
District 14	279	4,614	16.54
Amelia	36	310	8.61
Buckingham	71	1,208	17.01
Charlotte	12	260	21.67
Cumberland	59	926	15.69
Lunenburg	6	103	17.17
Nottoway	71	1,432	20.17
Prince Edward	24	375	15.63
District 15	767	14,038	18.30
Charles City Co.	18	345	19.17
Chesterfield	73	1,245	17.05
Goochland	25	382	15.28
Hanover	62	644	10.39
Henrico	65	626	9.63
New Kent	8	84	10.50
Powhatan	10	56	5.60
Richmond City	506	10,656	21.06
District 16	155	1,577	10.17
Caroline	16	93	5.81
King George	32	325	10.16
Spotsylvania	40	385	9.63
Stafford	36	430	11.94
Fredericksburg	31	344	11.10
District 17	148	2,175	14.70
Lancaster	29	302	10.41
Northumberland	62	1,034	16.68
Richmond	15	229	15.27
Westmoreland	42	610	14.52
District 18	192	3,838	19.99
Essex	36	818	22.72
Gloucester	41	837	20.41
King & Queen	23	440	19.13
King William	36	628	17.44
Mathews	25	556	22.24
Middlesex	31	559	18.03
District 19	464	14,995	32.32
Dinwiddie	54	1,511	27.98
Greensville	14	529	37.79
Prince George	21	179	8.52
Surry	20	564	28.20
Sussex	39	567	14.54
Colonial Heights	26	778	29.92
Emporia	13	173	13.31
Hopewell	84	3,045	36.25
Petersburg	193	7,649	39.63
District 20	2,169	39,418	18.17
Isle of Wight	98	1,270	12.96
Southampton	78	1,540	19.74
Chesapeake	461	12,187	26.44
Franklin City	34	808	23.76
Norfolk	453	8,004	17.67
Portsmouth	522	6,141	11.76
Suffolk	186	3,372	18.13
Virginia Beach	337	6,096	18.09
District 21	785	15,145	19.29
James City Co.	56	897	16.02
York	66	715	10.83
Hampton	211	6,419	30.42
Newport News	401	5,693	14.20
Poquoson	7	700	100.00
Williamsburg	44	721	16.39
District 22	349	12,187	34.92
Accomack	265	8,823	33.29
Northampton	84	3,364	40.05

TABLE 85
DENTAL HEALTH CLINIC ACTIVITIES BY LOCATION OF CLINIC*
VIRGINIA, FISCAL YEAR 1980

Planning District/ City or County	Total Patient Visits	First Visit This Year	Patients Completed	Total Services	Estimated Value of Services (in dollars)	Type of Service							
						Preventive and Diagnostic	Operative	Endodontic	Periodontic	Prostho-dontic	Surgical	Ortho-dontic	Adjunctive
STATE OF VIRGINIA	125,694	45,290	25,326	414,467	$3,757,891	176,251	89,714	47,624	8,444	3,122	30,746	1,622	56,944
District 1	3,213	1,225	741	10,836	115,048	4,052	3,101	1,557	221	17	955	7	926
Lee	499			1,459	13,544	925	206	85	12		66		165
Scott	1,339	702	320	4,143	43,908	1,106	1,484	877			624		52
Wise	1,375	523	421	5,234	57,596	2,021	1,411	595	209	17	265	7	709
District 2	3,290	892	445	15,792	138,073	4,053	5,145	2,356	60	2	1,178	6	2,992
Russell	1,548	262	187	7,307	62,849	812	2,161	2,039	42		765	2	1,486
Tazewell	1,742	630	258	8,485	75,224	3,241	2,984	317	18	2	413	4	1,506
District 3	6,481	2,492	1,181	20,068	164,388	10,107	5,152	787	344	73	1,236	19	2,350
Grayson	1,048	358	254	6,528	38,641	4,127	1,314	199	3		152	10	723
Smyth	1,642	688	59	4,867	40,306	2,370	976	3	55	64	252	6	1,141
Washington	2,318	713	524	4,313	47,110	1,633	1,690	1	266		284	1	438
Wythe	1,265	626	269	3,745	32,203	1,550	1,075	576	20	9	481	2	32
Galax	208	107	75	615	6,128	427	97	8			67		16
District 4	2,868	962	442	10,553	82,032	3,675	2,315	2,084	98	41	461	88	1,791
Floyd	228	95	24	913	5,810	443	156	173	4		14		123
Montgomery	1,435	407	313	6,140	50,401	1,763	1,303	1,230	58	40	208	85	1,453
Pulaski	1,205	460	105	3,500	25,821	1,469	856	681	36	1	239	3	215
District 5	4,956	1,969	1,308	18,238	150,921	8,028	3,695	2,622	417	8	1,196	80	2,192
Alleghany	533	203	187	1,669	13,399	703	375	139	4	4	125	16	303
Botetourt	1,249	482	238	4,985	42,129	1,792	1,561	1,004	162	2	290	3	171
Roanoke	1,563	710	656	6,753	56,793	3,789	1,162	1,015	134	1	200	46	406
Covington	325	131	125	975	8,147	467	192	46	1		83	15	171
Roanoke City	1,286	443	102	3,856	30,453	1,277	405	418	116	1	498		1,141
District 6	9,302	3,999	2,948	34,884	305,218	15,155	8,341	3,509	389	316	1,796	30	5,348
Augusta	1,280	542	337	5,386	37,066	2,307	1,150	758	14	4	150	9	994
Bath	260	113	89	1,064	8,248	375	229	185	28		94		153
Highland	100	65	65	373	3,773	190	57	6		25	10		85
Rockbridge	974	441	343	3,993	31,305	1,483	992	798	59	4	211	1	445
Rockingham	1,905	904	732	8,615	67,006	3,877	2,264	481	64	1	238	4	1,686
Buena Vista	628	142	97	2,398	20,212	851	778	481	2		98	7	181
Harrisonburg	699	324	207	3,282	26,202	1,644	581	280	32	2	122	5	616
Lexington	188	93	75	683	7,381	248	137	89	8	8	136		57
Staunton	1,277	668	571	4,074	53,499	1,890	1,035	109	173	131	170	4	562
Waynesboro	1,991	707	432	5,016	50,526	2,290	1,118	322	9	141	567		569

*Cities or Counties not shown did not hold dental clinics.

(continued)

TABLE 85
DENTAL HEALTH CLINIC ACTIVITIES BY LOCATION OF CLINIC*
VIRGINIA, FISCAL YEAR 1980 (continued)

Planning District/ City or County	Total Patient Visits	First Visit This Year	Patients Completed	Total Services	Estimated Value of Services (in dollars)	Type of Service							
						Preventive and Diagnostic	Operative	Endodontic	Periodontic	Prostho-dontic	Surgical	Ortho-dontic	Adjunctive
STATE OF VIRGINIA	125,694	45,290	25,326	414,467	$3,757,891	176,251	89,714	47,624	8,444	3,122	30,746	1,622	56,944
District 7	4,578	1,470	790	14,521	128,997	6,221	3,452	1,259	351	74	1,183	14	1,967
Frederick	865	492	137	2,961	32,797	1,016	873	124	147	30	480	3	288
Page	1,219	196	326	3,773	31,710	2,123	936	131			17		566
Shenandoah	1,764	365	242	5,201	35,966	2,265	869	894	74		262		837
Winchester	730	417	85	2,586	28,524	817	774	110	130	44	424	11	276
District 8	15,834	6,321	4,493	43,809	504,461	20,933	10,574	6,150	910	811	2,697	33	1,701
Arlington	3,441	1,271	766	9,943	114,648	4,038	2,155	1,526	281	285	888	18	752
Fairfax	5,678	2,611	1,913	14,475	214,734	7,486	3,833	1,173	157	518	908	10	390
Loudoun	1,297	622	317	6,307	53,207	3,318	1,352	1,272	49		252	5	59
Prince William	2,851	1,065	675	7,144	59,855	2,843	1,890	1,495	186	7	516		207
Alexandria	2,567	752	822	5,940	62,017	3,248	1,344	684	237	1	133		293
District 9	4,653	2,005	1,055	14,996	125,242	6,382	2,787	2,632	233	85	1,478	3	1,396
Culpeper	2,181	836	287	6,312	50,292	2,668	1,387	1,299	132	1	509		316
Orange	2,472	1,169	768	8,684	74,950	3,714	1,400	1,333	101	84	969	3	1,080
District 10	6,344	2,179	1,416	19,585	180,278	7,459	5,178	2,927	199	97	2,071	3	1,651
Albemarle	988	446	339	3,326	26,291	1,344	700	557	16	13	249	1	446
Fluvanna	444	39	140	1,450	13,796	513	630	160	2		59		36
Louisa	1,618	467	164	4,611	44,811	1,797	1,477	454	92	8	517		266
Nelson	1,052	470	304	3,146	29,096	1,050	902	602	30	11	382		169
Charlottesville	2,242	757	469	7,052	66,284	2,755	1,419	1,154	59	65	864	2	734
District 11	2,822	900	156	5,878	64,567	2,050	2,449	118	77	6	963	2	213
Amherst	1,783	438	105	3,002	37,749	747	1,724	34	12		424		60
Lynchburg	1,039	462	51	2,876	26,818	1,303	725	83	65	6	539	2	153
District 12	6,251	1,756	341	22,369	192,129	8,703	4,924	4,190	235	103	1,423	14	2,777
Henry	563	104	19	2,025	16,323	860	477	226	20	2	71	2	367
Pittsylvania	1,474	334	73	5,257	34,303	2,369	1,050	1,041	26	5	236	1	529
Danville	2,395	442	169	8,231	59,784	4,100	1,167	1,068	104	4	571		1,217
Martinsville	1,819	876	80	6,856	81,719	1,374	2,230	1,855	85	92	545	11	664
District 13	-												
District 14	1,367	674	98	6,716	50,391	2,898	1,250	45	52		794	535	1,142
Cumberland	1,137	522	98	5,584	44,116	2,497	1,246	45	51		488	371	886
Prince Edward	230	152		1,132	6,275	401	4		1		306	164	256
District 15	11,025	3,276	1,870	37,620	349,230	12,823	5,971	4,882	1,933	258	3,633	24	8,096
Chesterfield	1,443	635	632	2,324	20,222	1,029	628	345	32		150		140
Goochland	859	246	123	2,701	27,336	1,247	687	302	96		294		75
Hanover	830	310	163	3,843	34,358	1,583	816	635	61	8	117	17	606
Henrico	1,360	583	655	10,720	77,102	3,090	1,462	1,465	1,007		341	5	3,350
Richmond City	6,533	1,502	297	18,032	190,212	5,874	2,378	2,135	737	250	2,731	2	3,925

*Cities or Counties not shown did not hold dental clinics.

(continued)

TABLE 85
DENTAL HEALTH CLINIC ACTIVITIES BY LOCATION OF CLINIC*
VIRGINIA, FISCAL YEAR 1980 (continued)

Planning District/ City or County	Total Patient Visits	First Visit This Year	Patients Completed	Total Services	Estimated Value of Services (in dollars)	Type of Service							
						Preventive and Diagnostic	Operative	Endodontic	Periodontic	Prostho-dontic	Surgical	Ortho-dontic	Adjunctive
STATE OF VIRGINIA	125,694	45,290	25,326	414,467	$3,757,891	176,251	89,714	47,624	8,444	3,122	30,746	1,622	56,944
District 16	3,153	879	579	12,082	91,074	4,085	3,364	2,065	380	7	269	22	1,890
Spotsylvania	599	241	178	1,731	13,057	470	315	242	30		105	8	561
Stafford	1,377	254	129	4,769	37,105	1,430	1,866	797	19	2	102	12	541
Fredericksburg	1,177	384	272	5,582	40,912	2,185	1,183	1,026	331	5	62	2	788
District 17	1,545	597	289	5,876	44,581	2,407	710	675	224	3	576		1,281
Richmond	810	300	129	3,078	23,980	1,214	389	372	116	1	325		661
Westmoreland	735	297	160	2,798	20,601	1,193	321	303	108	2	251		620
District 18	-												
District 19	1,745	692	185	5,251	39,785	2,034	775	712	55		858		817
Hopewell	257	100	42	908	6,489	282	228	230	5		64		99
Petersburg	1,488	592	143	4,343	33,296	1,752	547	482	50		794		718
District 20	15,095	5,140	2,573	50,093	484,245	23,654	8,050	3,701	1,162	894	3,519	55	9,058
Chesapeake	1,699	697	302	5,666	53,492	2,634	804	247	79	78	513	5	1,306
Norfolk	5,343	997	982	17,951	206,839	8,990	3,001	1,993	389	366	1,417	48	1,747
Portsmouth	4,896	1,969	863	16,342	139,759	7,309	2,269	233	513	448	639	2	4,929
Suffolk	1,444	681	355	4,750	34,492	1,736	749	1,114	43		533		575
Virginia Beach	1,713	796	71	5,384	49,663	2,985	1,227	114	138	2	417		501
District 21	12,747	4,420	2,739	38,345	318,777	18,796	7,393	2,583	391	311	3,262	30	5,579
James City Co.	592	97	12	1,434	14,691	684	308	129	18	5	222	1	67
York	1,306	422	203	4,688	39,491	1,989	1,240	529	74	31	164	1	660
Hampton	1,200	470	249	5,232	40,606	2,472	874	816	53	95	249	8	665
Newport News	7,987	3,230	2,233	22,974	183,639	11,696	3,885	775	217	167	2,111	20	4,103
Williamsburg	1,662	201	42	4,017	40,350	1,955	1,086	334	29	13	516		84
District 22	1,804	800	596	5,297	41,726	2,690	1,204	368	40		111		884
Northampton	1,804	800	596	5,297	141,726	2,690	1,204	368	40		111		884
SPECIAL PROGRAMS	6,621	2,642	1,081	21,658	186,728	10,046	3,884	2,402	673	16	1,087	657	2,893
Greene Co.	2,279	490	535	8,337	60,118	2,490	1,771	1,866	274	6	127	520	1,283
Madison Co.	370	73	84	1,701	12,547	453	401	448	54		48	45	252
Norfolk C & Y	937	470	260	3,674	30,474	2,667	635	28	15		81	6	242
Richmond M & I	2,444	1,390	198	5,267	52,372	2,970	743	60	329		682	13	470
Facial Deformity	591	219	4	2,679	31,217	1,466	334		1	10	149	73	646

*Cities or Counties not shown did not hold dental clinics.

TABLE 86
VIRGINIA MEDICAL ASSISTANCE PROGRAM
EXPENDITURES BY LOCALITY OF RECIPIENT'S CURRENT ENROLLMENT FOR FISCAL YEAR 1980: AVERAGE PERCENT OF ENROLLED ELIGIBLES USING SERVICES EACH MONTH: NUMBER OF ELIGIBLES ENROLLED ON JULY 1, 1979 AND JULY 1, 1980 BY LOCALITY

Planning District/ City or County	Dollars Paid by Fiscal Agent FY 1980	Average Monthly Utilization Rate as Percent of Enrollment	Enrollment	
			7/1/79	7/1/80
STATE OF VIRGINIA	$374,061,065		273,307	282,651
District 1	8,024,981		6,735	6,990
Lee	2,338,032	59.1	2,503	2,534
Scott	1,547,023	55.8	1,664	1,732
Wise	3,514,001	61.0	2,293	2,438
Norton	625,925	62.5	275	286
District 2	6,621,668		7,403	7,333
Buchanan	1,638,442	59.6	2,022	2,031
Dickenson	1,501,799	65.7	1,446	1,447
Russell	1,418,333	63.1	1,775	1,756
Tazewell	2,063,094	55.9	2,160	2,099
District 3	9,539,141		8,947	9,014
Bland	282,525	63.4	216	219
Carroll	1,403,825	68.4	1,260	1,225
Grayson	797,692	63.8	819	821
Smyth	1,858,302	55.8	1,784	1,805
Washington	1,763,481	65.0	1,929	1,902
Wythe	1,730,926	65.0	1,275	1,360
Bristol	1,227,953	62.9	1,189	1,215
Galax	474,437	66.1	475	467
District 4	6,510,211		4,775	5,096
Floyd	636,585	62.2	437	451
Giles	1,043,903	61.9	751	701
Montgomery	2,066,167	58.2	1,816	1,988
Pulaski	2,131,725	65.4	1,462	1,614
Radford	631,831	66.6	309	342
District 5	16,307,482		13,766	13,936
Alleghany	627,897	64.3	512	511
Botetourt	856,411	57.2	738	691
Craig	256,664	65.6	120	106
Roanoke	2,683,239	50.5	1,517	1,690
Clifton Forge	416,176	71.8	203	243
Covington	560,970	58.8	441	482
Roanoke City	9,872,744	53.9	9,763	9,763
Salem	1,033,381	74.4	472	450
District 6	8,984,903		6,590	6,867
Augusta	1,978,211	61.1	1,489	1,572
Bath	337,753	66.8	186	205
Highland	168,455	57.4	115	105
Rockbridge	663,124	51.1	685	729
Rockingham	2,203,184	65.4	1,422	1,416
Buena Vista	269,492	60.6	284	312
Harrisonburg	911,697	64.5	527	524
Lexington	291,661	59.5	278	323
Staunton	1,258,030	59.3	857	886
Waynesboro	903,296	61.5	747	795
District 7	6,410,390		4,826	5,107
Clarke	402,600	60.5	351	392
Frederick	958,223	57.0	825	905
Page	1,386,603	63.0	946	943
Shenandoah	1,300,655	63.6	890	968
Warren	1,037,878	63.3	739	814
Winchester	1,324,431	59.1	1,075	1,085
District 8	34,743,839		25,539	29,194
Arlington	6,055,903	51.5	4,127	4,782
Fairfax	14,105,159	49.4	10,050	12,033
Loudoun	2,092,118	56.6	1,275	1,403
Prince William	4,129,553	51.1	3,121	3,899
Alexandria	6,981,727	48.3	5,934	5,868
Fairfax City	234,965	50.2	185	164
Falls Church	145,004	54.1	77	94
Manassas	682,920	52.4	421	571
Manassas Park	316,490	49.3	349	380
District 9	5,889,003		4,388	4,452
Culpeper	1,319,199	56.5	1,131	1,178
Fauquier	2,203,381	58.4	1,305	1,356
Madison	611,400	61.3	564	581
Orange	1,390,714	58.3	1,048	1,021
Rappahannock	364,309	63.1	340	316
District 10	7,823,659		7,438	7,237
Albemarle	1,882,184	54.3	1,882	1,817
Fluvanna	520,949	42.6	601	659
Greene	438,278	55.3	380	361
Louisa	1,069,802	54.6	1,054	1,060
Nelson	982,823	55.9	922	896
Charlottesville	2,929,623	50.5	2,599	2,444

(continued)

TABLE 86
VIRGINIA MEDICAL ASSISTANCE PROGRAM
EXPENDITURES BY LOCALITY OF RECIPIENT'S CURRENT ENROLLMENT FOR FISCAL YEAR 1980: AVERAGE PERCENT OF ENROLLED ELIGIBLES USING SERVICES EACH MONTH: NUMBER OF ELIGIBLES ENROLLED ON JULY 1, 1979 AND JULY 1, 1980 BY LOCALITY (continued)

Planning District/ City or County	Dollars Paid by Fiscal Agent FY 1980	Average Monthly Utilization Rate as Percent of Enrollment	Enrollment	
			7/1/79	7/1/80
STATE OF VIRGINIA	$374,061,065		273,307	282,651
District 11	9,636,705		8,460	8,594
Amherst	1,056,055	52.5	1,011	1,007
Appomattox	543,959	56.2	658	699
Bedford	1,911,465	56.5	1,284	1,263
Campbell	1,591,350	53.0	1,614	1,706
Bedford City*				
Lynchburg	4,533,876	51.2	3,893	3,919
District 12	12,005,095		11,747	12,184
Franklin	1,503,807	58.8	1,377	1,445
Henry	2,128,235	58.2	1,672	1,760
Patrick	1,269,339	67.2	732	817
Pittsylvania	2,664,754	48.4	3,501	3,623
Danville	3,154,870	52.3	3,346	3,397
Martinsville	1,284,090	61.4	1,119	1,142
District 13	6,379,441		5,865	6,241
Brunswick	1,410,962	54.7	1,206	1,302
Halifax	3,014,191	55.0	3,106	3,230
Mecklenburg	1,954,288	65.6	1,553	1,709
South Boston*				
District 14	5,071,531		5,996	6,201
Amelia	400,407	55.2	431	434
Buckingham	787,036	40.1	960	1,042
Charlotte	668,194	50.5	998	1,078
Cumberland	537,835	41.6	739	787
Lunenburg	642,389	61.3	617	653
Nottoway	1,041,939	54.6	1,023	944
Prince Edward	993,731	49.3	1,228	1,263
District 15	35,633,227		35,034	34,942
Charles City Co.	438,623	48.9	686	618
Chesterfield	3,095,189	51.7	2,168	2,232
Goochland	528,844	55.4	626	594
Hanover	1,370,514	53.8	1,080	1,091
Henrico	4,314,218	54.3	2,657	2,955
New Kent	312,996	53.1	263	308
Powhatan	389,376	54.4	405	397
Richmond City	25,183,467	44.1	27,149	26,747
District 16	4,575,570		4,468	4,601
Caroline	838,908	50.2	1,057	1,089
King George	379,964	55.5	418	438
Spotsylvania	1,165,219	60.6	1,246	1,265
Stafford	1,150,397	54.9	758	828
Fredericksburg	1,041,082	57.0	989	981
District 17	3,219,594		2,977	3,003
Lancaster	947,029	61.6	825	859
Northumberland	736,907	62.0	577	592
Richmond	501,670	49.3	440	442
Westmoreland	1,033,988	52.0	1,135	1,110
District 18	3,675,628		2,929	2,908
Essex	496,109	56.0	397	380
Gloucester	1,031,805	61.8	813	824
King and Queen	422,586	51.8	532	537
King William	464,043	48.7	478	464
Mathews	696,568	67.7	409	398
Middlesex	564,517	66.8	300	305
District 19	13,036,769		12,541	12,813
Dinwiddie	1,470,647	53.1	1,451	1,475
Greensville	1,068,448	54.0	1,306	1,318
Prince George	722,227	50.5	510	495
Surry	489,118	54.9	515	520
Sussex	1,012,471	51.0	1,157	1,182
Colonial Heights	681,097	63.0	344	316
Emporia	519,464	56.6	456	528
Hopewell	2,308,943	56.2	1,366	1,551
Petersburg	4,764,354	47.1	5,436	5,428
District 20	60,997,731		62,208	64,788
Isle of Wight	1,569,679	56.1	1,683	1,752
Southampton	1,971,994	65.0	2,037	2,103
Chesapeake	6,889,874	52.2	6,058	6,799
Franklin City	1,102,545	57.7	1,125	1,083
Norfolk	25,389,353	47.3	27,864	28,473
Portsmouth	10,984,583	47.2	12,333	12,238
Suffolk	4,834,632	53.8	4,878	4,965
Virginia Beach	8,255,071	52.5	6,230	7,375

*Included with surrounding county

(continued)

TABLE 86
VIRGINIA MEDICAL ASSISTANCE PROGRAM
EXPENDITURES BY LOCALITY OF RECIPIENT'S CURRENT ENROLLMENT FOR FISCAL YEAR 1980: AVERAGE PERCENT OF ENROLLED ELIGIBLES USING SERVICES EACH MONTH: NUMBER OF ELIGIBLES ENROLLED ON JULY 1, 1979 AND JULY 1, 1980 BY LOCALITY (continued)

Planning District/ City or County	Dollars Paid by Fiscal Agent FY 1980	Average Monthly Utilization Rate as Percent of Enrollment	Enrollment	
			7/1/79	7/1/80
STATE OF VIRGINIA	$374,061,065		273,307	282,651
District 21	17,325,017		20,061	20,800
James City Co.	822,646	51.5	811	875
York	765,962	51.3	783	798
Hampton	6,507,028	49.6	7,495	7,845
Newport News	8,843,747	48.3	10,742	11,051
Poquoson	134,786	68.9	85	91
Williamsburg	250,848	57.3	145	140
District 22	4,903,065		5,192	5,179
Accomack	3,262,317	56.3	3,200	3,254
Northampton	1,640,748	52.7	1,992	1,925
INSTITUTIONS	68,183,756		5,422	5,171
Southwestern Va. Tng. Ctr.	4,136,745		207	202
Southeastern Va. Tng. Ctr.	4,203,953		187	172
Northern Va. Tng. Ctr.	5,458,766		269	268
Southside Va. Tng. Ctr.	16,494,066		907	904
Lynchburg Training School	18,657,574		2,013	1,910
Western State Hospital	2,542,347		379	321
Southwestern State Hospital	1,942,866		144	139
Piedmont State Hospital	2,999,747		226	198
Eastern State Hospital	4,074,609		406	389
Central State Hospital	4,000,737		401	378
Catawba Sanatorium	3,236,137		263	284
Blue Ridge Sanatorium	436,209		20	6
Not identified by locality of residence in the State	18,562,659			

TABLE 87
VIRGINIA MEDICAL ASSISTANCE PROGRAM
PAYMENTS TO MEDICAL PROVIDERS FOR MEDICAL CARE AND SERVICES TO MEDICAID RECIPIENTS
FISCAL YEAR 1980

Providers and Services	Total Paid
MEDICAL CARE SERVICES	$374,061,065
Health Professional Service:	62,677,549
Physicians	35,161,879
Home Health Services	1,503,870
Optometrists	1,839,647
Podiatrists	174,454
Pharmaceutical Services	23,997,698
Hospital Services:	88,336,233
General Hospitals	79,869,140
Mental Hospitals	8,030,884
TB Hospitals	436,209
Nursing Home Services:	181,592,043
Skilled Nursing Homes	6,405,311
Mentally Retarded - SNH	3,434,959
Intermediate Care Facilities	116,550,919
Mentally Retarded - ICF	55,200,854
Clinic Services	23,992,076
Laboratory and X-Ray Services	199,889
Dental Services	5,181,220
Travel Aid:	4,350,412
Ambulance	495,932
Non-Ambulance	3,854,480
Medicare Appliances	885,538
Medicare Premiums	6,846,103

Note: Totals may not add due to rounding.

CONSOLIDATED LABORATORY SERVICES

As a result of legislation enacted by the General Assembly of 1972, there was a major reorganization of the State Health Department's laboratories. The Central Laboratory in Richmond and branch laboratories in Luray (Shenandoah Branch) and Abingdon (Southwest Branch) were consolidated along with certain laboratories of the State Agriculture Department, State Water Control Board, State Air Pollution Control Board, State Medical Examiner, and Alcoholic Beverage Control Board into a new Division of Consolidated Laboratory Services. The Division consists of four Bureaus--Forensic Science, Product Testing, Environmental Science, and Microbiological Science.

MICROBIOLOGICAL SCIENCE

The Bureau of Microbiological Science consists essentially of the former State Health Department laboratories. The ten local health department laboratories remain a part of the State Health Department and share the same relationship with the Bureau of Microbiological Science as before. The table below shows the workload for fiscal year 1980 for each laboratory of the Bureau of Microbiological Science as compared to 1979 data.

TOTAL NUMBER OF EXAMINATIONS AND PERCENT CHANGE
BUREAU OF MICROBIOLOGICAL SCIENCE
FISCAL YEAR 1979 AND 1980

Laboratory	Examinations		Percent Change
	1979	1980	
TOTAL	861,668	917,085	6.4
Central (Richmond)	665,407	728,546	9.5
Shenandoah (Luray)	77,561	76,706	-1.1
Southwest (Abingdon)	118,700	111,833	-5.8

The Bureau of Microbiological Science made 917,085 examinations in fiscal year 1980, an increase of 55,417 examinations, or 6.4 percent, over 1979. Detailed data on the number of examinations by type for each laboratory are given in Table 88, page 258.

A total of 959,516 examinations were done in the local public health laboratories in fiscal year 1980, a decrease of 3.7 percent from fiscal year 1979. Six laboratories had a decrease in examinations from the 1979 figures with Petersburg having the largest decrease (58.6 percent). Increases in examinations in the other four laboratories ranged from a high of 26.3 percent in Roanoke to a low of 7.5 percent in Lynchburg. Table 89 shows examinations by type for each of the local health department laboratories for fiscal year 1980.

TABLE 88
NUMBER OF EXAMINATIONS BY TYPE IN CENTRAL AND DISTRICT LABORATORIES
BUREAU OF MICROBIOLOGICAL SCIENCE, CONSOLIDATED LABORATORY SERVICES
VIRGINIA, FISCAL YEARS 1979 AND 1980

Type of Examination	Fiscal Year 1979				Fiscal Year 1980			
	Total	Central Laboratory	Shenandoah Branch	Southwest Branch	Total	Central Laboratory	Shenandoah Branch	Southwest Branch
TOTAL EXAMINATIONS	861,668	665,407	77,561	118,700	917,085	728,546	76,706	111,833
Syphilis								
Chancre Fluid	9			9				
Blood								
VDRL Qualitative Tests	182,091	139,479	20,183	22,429	175,679	135,506	19,758	20,415
VDRL Quantitative Tests	9,138	8,259	278	601	9,120	8,218	382	520
FTA-ABS Test	6,381	5,887		494	7,329	6,780		549
RPR	154	154			71	71		
Spinal Fluid								
VDRL Qualitative Tests	879	713	1	165	1,094	916	3	175
VDRL Quantitative Tests	1			1	8	8		
Infectious Mononucleosis								
Qualitative Only	2,702	2,341	100	261	2,200	1,483	28	689
Quantitative	756	621		135	581	209		372
Enteric Disease								
Agglutination Tests								
S. Typhi	67		40	27				
S. Paratyphi B	67		40	27				
Cultures - Feces								
Salmonella	9,212	6,448	1,150	1,614	8,858	6,072	1,212	1,574
Shigella	8,178	6,228	1,150	800	8,047	6,072	1,211	764
E. Coli	5	5						
Brucella								
Agglutination Tests	3,172	3,022	95	55	2,890	2,808	68	14
Cultures	54	54			11	11		
Tularemia								
Agglutination Tests	711	578	76	57	366	306	51	9
Toxoplasmosis	775	775			1,015	1,015		
Leptospirosis	187	187			258	258		
Trichinosis	180	180			136	136		
ASTO	477	477			489	489		
Anti-DNase	187	187			489	489		
Viral and Rickettsial Diseases								
Agglutination Tests								
Rocky Mountain Spotted Fever and Typhus	2,422	2,037	249	136	1,098	875	187	36
Cryptococcosis (antigen)					109	109		
Complement Fixation Tests								
Q Fever	84	84			105	105		
Rocky Mountain Spotted Fever Group	641	641			658	658		
Typhus Group	239	239			635	635		
Psittacosis - LGV (Chlamydia)	341	341			315	315		
Mumps	373	373			296	296		
Vaccinia	13	13			6	6		
Adenovirus	381	381			469	469		
Lymphocytic Choriomeningitis	111	111			92	92		
Herpes Simplex	598	598			774	774		
Venezuelan Equine Encephalitis	182	182			101	101		
Western Equine Encephalitis	145	145			172	172		
Eastern Equine Encephalitis	169	169			181	181		
St. Louis Encephalitis	143	143			166	166		
California Encephalitis	130	130			149	149		
Rubeola	43	43			154	154		
Varicella (chickenpox)	84	84			415	415		
Poliomyelitis - Type I, II, III	545	545			493	493		
Influenza - Type A	433	433			491	491		
Type B	436	436			532	532		
Mycoplasma Pneumonia	550	550			645	645		
Respiratory Syncytial	216	216			375	375		
Parainfluenza - Type 1, 2, 3	860	860			1,132	1,132		
Cytomegalovirus	328	328			475	475		

(continued)

TABLE 88
NUMBER OF EXAMINATIONS BY TYPE IN CENTRAL AND DISTRICT LABORATORIES
BUREAU OF MICROBIOLOGICAL SCIENCE, CONSOLIDATED LABORATORY SERVICES
VIRGINIA, FISCAL YEARS 1979 AND 1980 (continued)

Type of Examination	Fiscal Year 1979				Fiscal Year 1980			
	Total	Central Laboratory	Shenandoah Branch	Southwest Branch	Total	Central Laboratory	Shenandoah Branch	Southwest Branch
Hemagglutination-Inhibition Tests								
Influenza - Type A/2					463	463		
Type B-Polyvalent					252	252		
Rubella Screening	14,369	14,369			15,769	15,513		256
Rubella	647	647			698	698		
Rubeola (HI)	2,386	2,386			321	321		
Toxoplasmosis (HI)	82	82						
Virus Isolations								
Stool Specimens	34	34			71	71		
Throat Washings and Swabs	69	69			83	83		
Spinal Fluid	56	56			46	46		
Miscellaneous Specimens (Tissue and other material)	197	197			210	210		
Rabies								
Microscopic Examinations	535	246	117	172	596	274	163	159
Fluorescent Antibody Tests	783	473	118	192	919	544	168	207
Mouse Tests	568	368	91	109	567	391	107	69
Malaria	3	3			53	53		
Intestinal Parasites								
Feces	11,624	7,982	620	3,022	13,448	9,222	1,169	3,057
Slides for Enterobius Vermicularis	5,269	4,202	468	599	5,021	3,868	578	575
Parasites for Identification	1	1						
PVA					49	49		
Throat Swabs								
Diphtheria	8	8			121	120		1
Hemolytic Streptococcus (All Groups)	70,917	32,900	4,825	33,192	56,334	24,507	3,045	28,782
Group A	8,471	4,551	1,032	2,888	7,637	3,288	517	3,832
Others	867		186	681	791		106	685
Coagulase Positive Staphylococcus	9,707	5,406	281	4,020	5,693	4,182	171	1,340
Staphylococcus Phage Type	823	823			750	750		
B. Pertussis - FA					176	176		
B. Parapertussis - FA					106	106		
Tuberculosis								
Sputum								
Microscopic Examinations	16,006	13,047		2,959	15,520	12,563		2,957
Cultures								
M. tuberculosis	13,619	10,679		2,940	14,481	11,879		2,602
Atypical Mycobacteria	385	284		101	523	430		93
Unsatisfactory	1,221	983		238	1,552	1,290		262
Cultures for Identification								
M. tuberculosis	311	311			195	195		
Atypical Mycobacteria	336	336			470	470		
Unsatisfactory	1	1			4	4		
Other Fluids								
Microscopic Examinations	1,737	1,447		290	2,064	1,770		294
Cultures								
M. tuberculosis	3,309	2,851		458	3,785	3,341		444
Atypical Mycobacteria	45	45			37	37		
Unsatisfactory	348	343		5	322	312		10
Sensitivity Tests for INH:PAS:SM:EMB	507	507			493	493		
Mycotic Diseases								
Complement Fixation Tests								
Histoplasmosis	2,588	2,588			2,088	2,088		
Blastomycosis	1,297	1,297			1,111	1,111		
Coccidioidomycosis	1,317	1,317			1,114	1,114		
Specimens for Culture								
Systemic Fungus	883	883			1,052	1,052		
Cutaneous-Subcutaneous Fungus	315	315			583	583		
Culture for Identification	458	458			386	386		
Gonorrhea - Microscopic	9,508	8,666	301	541	8,115	7,353	301	461
Culture	101,921	74,616	15,627	11,678	111,490	81,760	17,455	12,275
Gonorrhea Sensitivity	159	159			224	224		
Blood for Sugar Determination	17,292	17,292			16,080	16,080		
PKU Tests								
Specimens of Blood	80,099	80,099			97,515	97,515		
Phenylalanine	446	446			664	664		
Tyrosine	24	24			26	26		

(continued)

TABLE 88
NUMBER OF EXAMINATIONS BY TYPE IN CENTRAL AND DISTRICT LABORATORIES
BUREAU OF MICROBIOLOGICAL SCIENCE, CONSOLIDATED LABORATORY SERVICES
VIRGINIA, FISCAL YEARS 1979 AND 1980 (continued)

Type of Examination	Fiscal Year 1979				Fiscal Year 1980			
	Total	Central Laboratory	Shenandoah Branch	Southwest Branch	Total	Central Laboratory	Shenandoah Branch	Southwest Branch
Hypothyroidism (T4)	53,130	53,130			95,051	95,051		
(TSH)	1,044	1,044			2,466	2,466		
Specimens of Blood for Rh Typing	8,928	7,272	863	793	8,868	6,935	1,043	890
Specimens of Blood for Blood Groupings	8,819	7,141	863	815	8,927	6,935	1,043	949
Atypical Antibody Screen	2,173	2,173			5,863	4,799	561	503
Hemoglobin Electrophoresis	24,057	24,057			25,530	25,530		
Solubility	1,122	1,122			2,128	2,128		
Specimens for Occult Blood	1		1					
Miscellaneous Examinations	711	487	27	197	224		71	153
Miscellaneous Cultures for Identification	2,751	2,751			2,995	2,995		
Anaerobic	291	291			463	463		
Aerobic	1,621	1,621			1,950	1,950		
Sanitary Examinations								
Water								
Bacteriological								
Total Coliform	94,219	57,060	19,535	17,624	93,028	56,290	18,310	18,428
Fecal Coliform	9,587	9,587			7,179	7,179		
Milk								
Standard Plate Count	3,182	1,271	969	942	2,937	1,254	991	692
Phosphatase Tests	3,052	1,175	969	908	2,776	1,121	990	665
Coliform Tests	3,140	1,257	966	917	2,862	1,201	989	672
Butterfat Tests	41			41	27			27
Ice Cream								
Standard Plate Count	178	113	65		211	130	81	
Phosphatase Tests	167	110	57		207	130	77	
Coliform Tests	178	113	65		211	130	81	
Counter Freezes								
Standard Plate Count	6,990	3,424	2,036	1,530	7,244	3,737	1,888	1,619
Phosphatase Tests	6,328	3,148	1,650	1,530	6,826	3,737	1,477	1,612
Coliform Tests	6,995	3,424	2,036	1,535	6,878	3,369	1,888	1,621
Cultured Products								
Coliform Tests	1,177	234	313	630	858	187	284	387
Phosphatase Tests	486	115	118	253	442	102	235	105
Empty Retail Containers								
Standard Plate Count	77	77			114	98		16
Coliform Tests	77	77			131	98	17	16
Sterile Products for Sterility Testing	89			89				
Food Poisoning	1,128	1,128			936	936		
Food and Beverage	2,067	2,067			9,297	9,297		
Bioassay	1,464	1,464			1,709	1,709		

TABLE 89
NUMBER OF EXAMINATIONS BY TYPE IN LOCAL HEALTH DEPARTMENT LABORATORIES
VIRGINIA STATE HEALTH DEPARTMENT, FISCAL YEAR 1980

Type of Examination	Total	Local Health Department Laboratories									
		Alex-andria	Arling-ton	Fairfax	Lynch-burg	Newport News	Norfolk	Peters-burg	Ports-mouth	Richmond	Roanoke
TOTAL EXAMINATIONS	959,516	22,233	57,251	144,607	65,923	205,839	161,009	26,003	111,617	125,831	39,203
Total General Microbiology	423,153	15,850	23,605	53,498	18,191	58,810	110,636	5,084	27,818	90,440	19,221
Venereal Disease											
Syphilis											
Blood VDRL (Qualitative)	111,334		8,332	6		11,512	36,730		11,039	34,249	9,466
(Quantitative)	6,079		360	6	42	350	2,515		407	2,086	313
RPR	29,937	4,502		16,004	8,909					522	
Spinal Fluid (Qualitative)	87						87				
(Quantitative)	386			385			1				
FTA-ABS--Spinal Fluid	67			50			17				
FTA-ABS--Blood	2,550	199		355			1,301			695	
Darkfield-Chancre Fluid	188	35	8			114		6	19		6
Trichomonas	571	100	120	199		149					3
Other	2,606	516	105	1,799			66			120	
Gonorrhea											
Smear	12,435	838	593	301	241	1,303	31	417	1,268	7,222	221
Culture	163,299	8,101	4,638	10,244	8,565	39,383	47,200	4,652	10,785	23,186	6,545
Biochemical Battery	254		82	74		58	40				
Other	180		10			51	92				27
Bacterial Infections (Respiratory)											
Throat Swabs											
C. Diphtheria	55						47			8	
B. Hemolytic Strep (All Groups)	11,683	22	3,139	1,971	342	1,664			969	2,929	647
Group A	9,719	2	332	184		158	8,444		134	435	30
Staph-Aureus (Coagulase Pos.)	2,967	7	90	1,971		24			1	514	360
Vincent's Angina (Smear)	3									3	
Staphylococcus Phage Type	103						103				
Other	2,236	85	91	63			1,008		207	106	676
Tuberculosis											
Sputum for Tuberculosis											
Microscopic Examination	4,308		669	1,055			631			1,953	
Culture-M. Tuberculosis	8,432		508	2,900			524			4,500	
Atypical Mycobacterium	126		7	42			4			73	
Urine for TB (Culture)	210		12	30			56			112	
Gastric Washings (Culture)	21						21				
Other Materials											
Microscopic Examinations	102		10				92				
Cultures-M. Tuberculosis	50						50				
Other	748			662			86				
Bacterial Infections (Other Sites)											
Urine Culture (Counts)	6,884	33	886	1,553		2,695	865		852		
Drug Sensitivities	1,941	27	1,105	255			375		179		
Identifications	2,581		131	658			775		1,017		
Urine Culture (No Counts)	1						1				
Miscellaneous Cultures for Identification											
Streptococcus	13						13				
N. Meningitis	85	79					6				
Miscellaneous Material	3,362	4	282	1,539		71	1,231		204		31
Serology Other Than Syphilis Sero.											
Febrile Agglutinations											
Salmonella "O" Group B	43										43
Salmonella "O" Group D	43										43
Brucella	279						196			40	43
Tularemia	77						1			33	43
Weil-Felix OX-19	204						2			159	43
OX-2	139						2			94	43
OX-K	50						1			6	43
Miscellaneous Serology											
Antistreptolysin	28					28					
Infectious Mononucleosis											
(Qualitative)	595		52		30	87	59		18	258	91
(Quantitative)	40		7				16				17
Streptococcus MG	1						1				
C-Reactive Protein	14								14		
Rheumatoid	166				6	101			59		
Other	4,604			10		2				4,592	
Intestinal Infections (Bacterial and Parasitic)											
Feces Culture											
Salmonella	3,776	342	507	1,507			609			811	
Shigella	3,203	342	507	1,507			454			393	
E. Coli	244	4					240				
Other	6						6				
Feces for Intestinal Parasites	8,067	418	913	5,107		41	322		103	1,067	96
Slides for E. Vermicularis	1,144	10	90	168	50	82	243	9	32	435	25
Smears for Trichomonas	1,841					453			247	1,030	111
Parasites for Identification	198	184		13						1	
Other	7		1		6						

(continued)

TABLE 89
NUMBER OF EXAMINATIONS BY TYPE IN LOCAL HEALTH DEPARTMENT LABORATORIES
VIRGINIA STATE HEALTH DEPARTMENT, FISCAL YEAR 1980 (continued)

Type of Examination	Total	Local Health Department Laboratories									
		Alex-andria	Arling-ton	Fairfax	Lynch-burg	Newport News	Norfolk	Peters-burg	Ports-mouth	Richmond	Roanoke
Intestinal Infections (continued) (Bacterial and Parasitic)											
Fungus Diseases											
Systemic Fungus											
Sputum	31						22			9	
Spinal Fluid	2						2				
Other	18						17				1
Cutaneous-Subcutaneous Fungus											
Hair-Skin-Nails	30						29			1	
Other	396						396				
Cultures for Identification	368						187			181	
Fungus Smear Only	709					436	2		264		7
Rabies											
Microscopic Examination	423		18	227			178				
FA Test	551			312			239				
Mouse Test	245			87			158				
Rabies Control	63			63							
Virus Isolation											
Throat Washings	111						111				
Feces	139						139				
Spinal Fluid	28						28				
Tissue	10						10				
Urine	7						7				
Other Material	44						43				1
Virus Rickettsial and Fungus Sero.											
Poliovirus I, II, III	61						61				
Herpes Simplex (HS)	254						254				
Influenza A	50						50				
Influenza B	50						50				
Cytomegalovirus	389						389				
Adenovirus	58						58				
Parainfluenza 1, 2, 3	37						37				
Respiratory Syncytial (RS)	31						31				
Mumps	35						35				
Measles (Rubeola)	125						125				
Rubella	5,357			2,016			3,341				
Mycoplasma Pneumoniae	73						73				
Other Microbiology											
Biochemical Battery-Enterics	100			100							
CDC Evaluation - Bacteriology	10			10							
CDC Evaluation - Parasitology	65			65							
Antibiotic Sensitivity	1,802									1,802	
Monilia	815									815	
Other	294					48					246
Total Environmental Sanitation	53,169	1,045	675	18,737	1,784	4,084	14,035	784	1,550	6,593	3,882
Water Bacteriology											
Presumptive	11,199	77	4	7,503			67	414	52	3,079	3
Confirmed	2,107	9		1,990			32	10	11	52	3
Completed	71						6	9	10	46	
Fecal Coliform	2,015	65	49	1,695			206				
Other	2,842	11	50	1,115			1,564			102	
Water Chemistry											
Fluoride Only	693	45		262			386				
Chlorine Only	685	47					638				
D.O.	1,046			1,046							
B.O.D. and C.O.D.	142			142							
Milk											
Standard Plate Count	3,398	65	10	307	103	386	1,781		147	381	218
Coliform Count	3,268	65	12	295	103	386	1,683		133	381	210
Phosphatase Test	3,130	64	12	47	103	386	1,783		139	381	215
Cryoscopic Test	145						145				
Other	668			628	18					22	
Ice Cream											
Standard Plate Count	532	11	35	284	28	58	68		48		
Coliform Count	564	21	57	284	28	58	68		48		
Phosphatase Test	308	3		103	28	58	68		48		
Counter Freezes and Milk Shakes											
Standard Plate Count	5,643	181	196	632	413	830	1,374	117	275	607	1,018
Coliform Count	5,748	234	250	632	412	830	1,374	117	275	607	1,017
Phosphatase Test	4,771			172	376	830	1,374	117	275	607	1,020
Cultured Products											
Coliform Count	1,127	49		108	86	167	412		70	146	89
Phosphatase Test	913	49		26	86	86	412		19	146	89

(continued)

TABLE 89
NUMBER OF EXAMINATIONS BY TYPE IN LOCAL HEALTH DEPARTMENT LABORATORIES
VIRGINIA STATE HEALTH DEPARTMENT, FISCAL YEAR 1980 (continued)

Type of Examination	Total	Local Health Department Laboratories									
		Alex-andria	Arling-ton	Fairfax	Lynch-burg	Newport News	Norfolk	Peters-burg	Ports-mouth	Richmond	Roanoke
Total Environmental Sanitation (continued)											
Empty Containers											
Standard Plate Count	26						10			16	
Coliform Count	26						10			16	
Air Pollution Samples											
Pollen Count	218						218				
Mold Count	274						274				
Food and Beverage	53	49		4							
Sanitary Quality	86						82			4	
Food Poisoning	1			1							
Other	1,470			1,461		9					
Total Clinical Chemistry	75,417	477	5,012	32,116	6,758	13,522	7,493	326	8,972	264	477
Blood Glucose (Quantitative)	21,347		1,847	6,758	2,889	3,686	88	322	5,396		361
BUN (Quantitative)	10,336		1,670	6,804	756	835				264	7
Total Protein	19			19							
Uric Acid	1,883			1,883							
Cholesterol	2,366		508	1,858							
Creatinine	1,826			1,826							
Inorganic Phosphorus	8			8							
Alkaline Phosphatase	43			43							
Bilirubin	2,028	108		1,908		12					
SGOT	3,128		490	2,530							108
SGPT	750			750							
Calcium	23			23							
Albumin	48	35		13							
Blood Lead	7,209	16					7,193				
Triglycerides	2,384		497	1,887							
Other	22,019	318		5,806	3,113	8,989	212	4	3,576		1
Total Hematology	202,290	4,457	11,692	25,870	9,993	99,070	10,024	3,958	21,676	10,272	5,278
Red Blood Cell Count	23,128	6	1,748	2,887	4	16,309	234	256	346	1,278	60
White Blood Cell Count	27,204	6	1,733	2,889	894	16,309	374	264	2,690	1,285	760
Differential Count	20,154	6	1,211	3,206	881	11,368	396	257	744	1,278	807
Reticulocyte Count	487		75	20	10	295			67	6	14
Platelet Count	449			89	18	326					16
Coagulation Time	4					2		2			
One-Stage Prothrombin Time	321					321					
Bleeding Time	6					4		2			
Hematocrit	56,080	3,320	4,606	5,171	6,975	16,309	5,863	6	9,671	1,433	2,726
Sedimentation Rate	612			35	29	391	27	37	83	4	6
Blood Group	3,881		284	990		753		60	639	1,155	
RH Type and DU	4,291		285	1,149	165	898			639	1,155	
Atypical Antibody Screen	1,145					763			382		
Sickle Cell (Screen)	513	248					265				
Hemoglobin	32,929		1,750	3,314	1,014	16,309		3,009	5,372	1,280	881
Indices	18,681			40	3	16,309		5	1,038	1,278	8
Hemaglobin Electrophoresis	4,200	871		1,050		2,279					
Other	8,205			5,030		125	2,865	60	5	120	
Total Miscellaneous Clinical Tests	127,990	404	12,826	14,386	14,569	30,353	11,305	11,839	16,736	11,661	3,911
Occult Blood	3,559	84	11	91	13	453	17	2,729	114	44	3
EKG	83							83			
Exfoliate Cytology	54	54									
Pregnancy Test	5,530		256	221	467	2,330	377	676	1,203		
Urinalysis	60,121	172	6,307	6,971	7,040	14,800	5,219	3,732	11,593	1,749	2,538
Urinalysis-Microscopic	43,375	94	5,267	6,956	6,728	12,141	4,501	1,246	3,820	1,314	1,308
Urine Tests-Miscellaneous	15,268		985	147	321	629	1,191	3,373	6	8,554	62
Total Miscellaneous	77,497		3,441		14,628		7,516	4,012	34,865	6,601	6,434
Venipuncture	45,926		2,472		4,878		3,333	3,095	28,082		4,066
Finger Sticks	13,863		969		7,223		3,887	917			867
Other	17,708				2,527		296		6,783	6,601	1,501